

| | | | | | | | |
|--|--|---|--|---|--|---|--|
| AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT | | | | 1. CONTRACT ID CODE <div style="text-align: center;">J</div> | | PAGE OF PAGES <div style="text-align: center;">1 177</div> | |
| 2. AMENDMENT/MODIFICATION NO. 0001 | | 3. EFFECTIVE DATE 24-Jan-2003 | | 4. REQUISITION/PURCHASE REQ. NO. W22W9K-2317-5658 | | 5. PROJECT NO.(If applicable) | |
| 6. ISSUED BY USA ENGINEER DISTRICT, LOUISVILLE ATTN: CELRL-CT 600 DR. MARTIN LUTHER KING PLACE ROOM 821 LOUISVILLE KY 40202 | | CODE DACA27 | | 7. ADMINISTERED BY (If other than item 6) CONTRACT ADMINISTRATION BRANCH ATTN: JENNIFER J. ANDERSON P. O. BOX 59 LOUISVILLE KY 40201-0059 | | CODE DACA27 | |
| 8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code) | | | | X | | 9A. AMENDMENT OF SOLICITATION NO. DACA27-03-R-0005 | |
| | | | | X | | 9B. DATED (SEE ITEM 11) 20-Dec-2002 | |
| | | | | | | 10A. MOD. OF CONTRACT/ORDER NO. | |
| | | | | | | 10B. DATED (SEE ITEM 13) | |
| CODE | | FACILITY CODE | | | | | |
| 11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS | | | | | | | |
| <input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>6</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified. | | | | | | | |
| 12. ACCOUNTING AND APPROPRIATION DATA (If required) | | | | | | | |
| 13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14. | | | | | | | |
| A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A. | | | | | | | |
| B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B). | | | | | | | |
| C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: | | | | | | | |
| D. OTHER (Specify type of modification and authority) | | | | | | | |
| E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office. | | | | | | | |
| 14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) Solicitation DACA27-03-R-0005 for the Design/Build Fully Contained Small Arms Range Complex, WPAFB, OH, is hereby amended as follows: a. Section 00130, dated 8 November 2002, is replaced with Section 00130, Revision date 24 January 2003. | | | | | | | |
| Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect. | | | | | | | |
| 15A. NAME AND TITLE OF SIGNER (Type or print) | | | | 16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) | | | |
| | | | | TEL: _____ EMAIL: _____ | | | |
| 15B. CONTRACTOR/OFFEROR | | 15C. DATE SIGNED | | 16B. UNITED STATES OF AMERICA | | 16C. DATE SIGNED | |
| _____ (Signature of person authorized to sign) | | | | BY _____ (Signature of Contracting Officer) | | 24-Jan-2003 | |

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES

SECTION SF 30 - BLOCK 14 CONTINUATION PAGE

The following have been added by full text:

AMENDMENT 0001

SECTION 00130 08 November 2002 (Revision date - 24 January 2003)

PROPOSAL EVALUATION SYSTEM

* Indicates revision – **AMENDMENT 0001 (SEE B. CONSTRUCTION PROJECT MANAGER)**

1. **STATEMENT OF WORK.** The contractor shall design and construct the Fully Contained Small Arms Range Complex at Wright-Patterson Air Force Base in accordance with the provisions set forth in the Request for Proposal (RFP) and in the contractor's proposal thereto.

1.1. **Design Freedom.** Requirements stated in this RFP are minimums. Innovative, creative or cost-saving proposals that meet or exceed these requirements are encouraged and will receive a higher rating.

2. **EVALUATION PROCESS.** The evaluation process essentially consists of five parts: proposal compliance review, technically/quality evaluation, price analysis, competitive range (if discussions are opened) and cost/technical trade-off analysis.

2.1. **Proposal Compliance Review.** This is an initial review to ensure that all required forms and certifications are complete and that both a technical and price proposal were received.

2.2. **Technical/Quality Evaluation:** A Source Selection Evaluation Board (SSEB), comprised of representatives of the Corps of Engineers and the Using Agency, will evaluate the proposals using the evaluation criteria in this section. The number and identities of offerors are not revealed to anyone who is not involved in the evaluation and award process or to other offerors. Proposals will be evaluated based on the factors described herein. The evaluation will identify quality issues, both positive and negative, that may be discussed between the government and the offerors. Proposals will be evaluated on their own merit. An adjective will be assigned to all factors, except for the Subcontracting Plan and the Subcontracting Past Performance Information and price.

3. TECHNICAL PROPOSAL EVALUATION.

3.1 **Criteria:** The Government, at its option, may utilize CCASS (Construction Contractor Appraisal Support System), ACASS (Architect-Engineer Contract Administration Support System) and PPIMS (U.S. Army Past Performance Information Management System) information to evaluate an offeror's proposal. Offerors with no relevant performance history will be evaluated with a neutral rating.

TAB A. CONTRACTOR EXPERIENCE**A1 CONSTRUCTION EXPERIENCE:**

The Source Selection Evaluation Board (SSEB) will adjectivally evaluate if the construction team experience provided demonstrates that the construction team has constructed projects with similar scope, size, and complexity to the proposed project. Demonstrating the construction team has constructed projects with similar scope, size, and complexity to the proposed project is required. Demonstration of experience in completing projects that had unique characteristics of the proposed project will be evaluated favorably. Providing experience in the construction of ventilation systems that limit building occupant lead exposure will be evaluated favorably. Demonstration of any specific experience in the construction of indoor firing ranges, bullet traps, ceiling baffles, automated target systems, and other unique range features will be evaluated favorably. Experience demonstrated in construction of indoor firing ranges will be favorably evaluated. Experience demonstrated in the construction of military indoor firing ranges will be evaluated more favorably than experience in non-military indoor firing ranges. Experience demonstrated in the construction of structures that utilize pre-cast concrete panels and long-span roof trusses will be favorably evaluated. Demonstrating design/build project experience will be evaluated favorably.

A2. DESIGN EXPERIENCE:

The Source Selection Evaluation Board (SSEB) will adjectivally evaluate the design team experience provided that demonstrates the design team has designed projects with similar scope, size, and complexity to the proposed project. Demonstrating the design team has designed projects with similar scope, size, and complexity to the proposed project is required. Demonstration of experience in completing projects that had unique characteristics of the proposed project will be evaluated favorably. Providing experience in the design of ventilation systems that limit building occupant lead exposure will be evaluated favorably. Demonstration of any specific experience in the design of indoor firing ranges, bullet traps, ceiling baffles, automated target systems, and other unique range features will be evaluated favorably. Experience demonstrated in design of indoor firing ranges will be favorably evaluated. Experience demonstrated in design of military indoor firing ranges will be evaluated more favorably than experience in non-military indoor firing ranges. Experience demonstrated in the design of structures that utilize pre-cast concrete panels and long-span roof trusses will be favorably evaluated. Demonstrating design/build project experience will be evaluated favorably.

A3 – TEAM EXPERIENCE.

Providing a narrative identifying past experience, if any, of the contractors, subcontractors, and key personnel working together on successful projects to illustrate the strength of the design/build team is optional. However, experience demonstrated in working together successfully as a team on design/build projects will be favorably evaluated. Experience demonstrated in working successfully as a team on indoor firing range projects will be evaluated favorably. Team experience on military indoor firing range projects will be evaluated favorably.

TAB B. INDIVIDUAL EXPERIENCE.

The SSEB will adjectivally evaluate the resumes submitted for this project. The SSEB will evaluate the degrees of qualification and experience. Only one individual for each of the key personnel categories listed above will be evaluated.

Architect Designer of Record: Providing experience in designing projects that had similar scope, size and complexity and the requirements of the proposed project is required. Providing experience in designing massing, exterior materials, and other unique characteristics will be favorably evaluated. Experience demonstrated in design of indoor firing ranges will be favorably evaluated. Experience demonstrated in design of military indoor firing ranges will be evaluated more favorably than experience in non-military indoor firing ranges. Providing experience in designing structures that utilized pre-cast concrete panels and long-span roof trusses will be evaluated favorably. Providing design/build will be evaluated favorably. Providing the Registration Number for the Architect Designer of Record is required.

Construction Project Manager: ~~* Providing experience in designing constructing projects that had similar scope, size and complexity and the requirements of the proposed project is required.~~ **Providing experience in constructing projects that had similar scope, size and complexity and the requirements of the proposed project is required.** Providing experience in unique characteristics will be favorably evaluated. Experience demonstrated in construction of indoor firing ranges will be favorably evaluated. Experience demonstrated in construction of military indoor firing ranges will be evaluated more favorably than experience in non-military indoor firing ranges. Providing experience in constructing structures that utilized pre-cast concrete panels and long-span roof trusses will be evaluated favorably. Providing design/build experience will be evaluated favorably.

Construction/Design Manager for the Firing Range Systems: Providing experience for the individual who will be responsible for selection/installation/coordination/certification of the firing range and it's associated equipment, provide experience in projects that included bullet traps, shooting booths, special lighting, programmable target carrier and control systems, and range ventilation systems is required. Experience demonstrated in construction of indoor firing ranges will be favorably evaluated. Experience demonstrated in construction of military indoor firing ranges will be evaluated more favorably than experience in non-military indoor firing ranges. Providing design/build experience will be evaluated favorably.

HVAC Designer for the Firing Range: Providing experience in designing projects that had similar scope, size and complexity and requirements of the proposed project is required. Providing experience in unique characteristics will be favorably evaluated. Providing experience in designing special ventilation systems to limit building occupant lead exposure utilizing make-up air units and exhaust air units will be evaluated favorably. Providing design/build experience will be evaluated favorably.

TAB C. CONTRACTOR PAST PERFORMANCE**C1. CONSTRUCTION PAST PERFORMANCE:**

The SSEB will adjectivally evaluate past performance on relevant projects provided under TAB A1. References and documentation that reflect better than satisfactory past performance will be rated favorably. Conversely, references that reflect below satisfactory past performance will be considered a deficiency. The SSEB has the option to call any or all references.

C2. DESIGN PAST PERFORMANCE:

The SSEB will adjectivally evaluate past performance on relevant projects listed provided under TAB A2. References and documentation that reflect better than satisfactory past performance will be rated favorably. Conversely, references that reflect below satisfactory past performance will be considered a deficiency. The SSEB has the option to call any or all references.

C3. TEAM PAST PERFORMANCE:

The SSEB will adjectivally evaluate past performance on relevant projects provided under TAB A3. References and documentation that reflect better than satisfactory past performance will be rated favorably. Conversely, references that reflect below satisfactory past performance will be considered a deficiency. The SSEB has the option to call any or all references.

TAB D. PROJECT MANAGEMENT:

The SSEB will adjectivally evaluate the offeror's proposed organization for designing, constructing and managing a successful project, as shown by the organization chart that is supported by the information provided. Providing an organization chart for the team proposed on this project is required. Identifying the lines of communication and decision making authority between each of the contractors, major subcontractors and individuals is required. Identifying by name, the Designer of Record for each of the disciplines (the professionals that will stamp design documents for each discipline) and indicating on the chart that they will be the designer of record is required. Describing the interaction between the designers and the constructors of the team and method for attaining quality control for all products is required. Identifying whether personnel will be on-site or off-site is required. Providing a narrative to support the organization chart is required. Presenting a project schedule of major milestones (Design Submittals, Design Reviews, Review Meetings, Construction Start, Interim Construction Milestones, Construction Complete, etc.) is required. Other key personnel not listed under TAB B may be evaluated favorably. Demonstrating an effective management approach in the past will be rated favorably. The SSEB will adjectivally evaluate the schedule. Schedules offering duration less than that shown in Section 00800 will be favorably evaluated if the schedule is shown to be realistic and achievable. The Government reserves the right to accept or decline a proposed shorter duration. Conversely, a schedule that indicate a duration longer than that shown in Section 00800 will be unfavorably evaluated.

TAB E. TECHNICAL APPROACH.

The SSEB will adjectivally evaluate the narrative for technical approach. Acknowledgement that requirements contained in RFP will be met and proposal contains no deviations from the project requirements is required. Proposals that provide a narrative that provides a clear description of the team's approach to the design/build process, specifically on how the design and construction of this project will be approached to insure that the range functions properly will be evaluated favorably.

Betterments may be evaluated favorably if they are judged to be advantageous to the Government. Deviations will result in an unfavorable evaluation.

4. Subcontracting Plan for Large Business.

Subcontracting Information. This factor will be evaluated on a “go, no-go” basis.

4.1. Past Performance on Utilization of Small, Small Disadvantaged and Women-Owned Small Business. The SSEB will evaluate the clarity, adequacy, capabilities and strengths of the offeror’s past efforts to comply with FAR Clause 52.219-8, Utilization of Small, Small Disadvantaged and Women-Owned Small Business Concerns, and, if a large business firm, the successes of meeting and /or exceeding the goals on previous projects containing subcontracting plans.

4.2 Subcontracting Plan for Large Business. The plan will be evaluated for acceptability in accordance with AFARS 19.705. To be acceptable, subcontracting plans must:

(a) Adequately address the required statutory elements.

(b) Provide sufficient information to enable the Contracting Office to answer affirmatively questions A through H of Appendix DD (AFARS 19.705).

(c) The Plan will not be adjectivally evaluated, but will be evaluated for acceptability (go, no-go) in accordance with AFARS 19.705. To be acceptable, subcontracting plans must be rated 71 percent or higher under the AFAR evaluation system. Any plan that is rated 70 percent or less under the AFAR evaluation system will be carefully considered for acceptability. If discussions with offerors are necessary, those areas where the plan is deficient will be reviewed with the offeror with the goal of correcting deficiencies. Due to requirements for review of the successful offeror’s subcontracting plan by other agencies, the Government reserves the right to negotiate the final plan with the successful offeror before award.

4.3 Past Performance on Utilization: Documentation will not be adjectivally evaluated, but will be evaluated for acceptability (go, no-go) in accordance with Clauses 52.219-8, Utilization of Small Business Concerns, and FAR Clause 52.219-9, Small Business Subcontracting Plan.

5. Price Analysis.

5.1. After the proposals are quality rated, the proposals are evaluated against price. Price will be checked for fairness and reasonableness through the use of price analysis. Price will also be checked for unbalancing of line items. Offerors are cautioned to distribute costs appropriately. All evaluation factors other than cost or price, when combined, are significantly more important than cost or price.

5.2. Evaluation of Options: Except when it is determined in accordance with FAR 17.206(b), the contracting officer need not evaluate offers for any option quantities when it is determined that evaluation would not be in the best interests of the Government and this determination is approved at a level above the contracting officer. An example of a circumstance that may support a determination not to evaluate offers for option quantities is when there is a reasonable certainty that funds will be unavailable to permit exercise of the option.

5.3. Competitive Range (if discussions are opened): The results of the evaluation, together with the price proposal, become the basis for determining the competitive range. The group of offerors that have a reasonable chance of being awarded a contract are in the competitive range and will merit further consideration by the Government. If discussions are necessary, all offerors in the competitive range will be included in discussions. Upon conclusion of discussions, all offerors remaining in the competitive range will be invited to submit their Final Revised Proposal. Following receipt of the Final Revised Proposals, each received offer will be evaluated.

5.4. Cost/Technical Trade-Off Analysis: After all above evaluations are complete, the SSEB will then consider all factors to determine the proposal offering the most advantage to the Government. The SSEB will compare the relative advantages and disadvantages of technical proposals and compare prices.

5.5. Award: An award will be made to that offeror whose proposal, conforming to the solicitation, will be most advantageous to the Government including betterments within the available funds. Note: An award may be made on the basis of initial offerors received, without discussions; therefore, the offeror should submit the best initial offer possible.

5.6. Notification: The Government will notify all offerors not selected, advising them of the proposal which was selected. Unsuccessful offerors are invited to request in writing for a debriefing within three (3) days after the date on which that offeror has received notification of contract award.

END OF SECTION 00130

b. The goals for minority participation by each trade under 52.222-23 NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY FOR CONSTRUCTION (FEB 1999) is changed from 18.2% to 11.5% as indicated below:

- (c) The offeror's attention is called to the Equal Opportunity clause and the Affirmative Action Compliance Requirements for Construction clause of this solicitation.
- (d) The goals for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

| Goals for minority participation for each trade | Goals for female participation for each trade |
|---|---|
| 18.2% 11.5% | 6.9% |

These goals are applicable to all the Contractor's construction work performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, the Contractor shall apply the goals established for the geographical area where the work is actually performed. Goals are published periodically in the Federal Register in notice form, and these notices may be obtained from any Office of Federal Contract Compliance Programs office.

(c) The Contractor's compliance with Executive Order 11246, as amended, and the regulations in 41 CFR 60-4 shall be based on (1) its implementation of the Equal Opportunity clause, (2) specific affirmative action obligations required by the clause entitled "Affirmative Action Compliance Requirements for Construction," and (3) its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade. The Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor, or from project to project, for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, Executive Order 11246, as amended, and the regulations in 41 CFR 60-4. Compliance with the goals will be measured against the total work hours performed.

(d) The Contractor shall provide written notification to the Deputy Assistant Secretary for Federal Contract Compliance, U.S. Department of Labor, within 10 working days following award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the --

- (1) Name, address, and telephone number of the subcontractor;

- (2) Employer's identification number of the subcontractor;
 - (3) Estimated dollar amount of the subcontract;
 - (4) Estimated starting and completion dates of the subcontract; and
 - (5) Geographical area in which the subcontract is to be performed.
- (e) As used in this Notice, and in any contract resulting from this solicitation, the "covered area" is **Dayton, Greene County, Ohio**.

(End of provision)

c. The following changes are incorporated into the solicitation (revised specifications attached):

Sections 01010, 01020, 01021, 07412A, 08110 and 127051 are deleted and Sections 01010, 01020, 01021, 07412A, 08110 and 127051 Amendment #0001 are substituted therefore.

Section 00800: Paragraph 1.5d. Delete reference to Drawing M3.01, Mechanical Schedules.

Drawings:

1) A1.01, Space B2

a. Delete note describing the vault construction. Reference Section 01020 for vault requirements.

2) A1.01, Space B5 and C7

- a. Delete note that reads "chain link fence cover over yard per Force Protection", two places.
- b. Add new note to read "chain link fence cover over yard, secured at the edges to prevent unauthorized entry", two places.

3) C2.00, Spaces D6 & D7

a. Delete the following drawing note:

"Re-erect 99.34 meters of chain link fence removed elsewhere on site to match existing".

b. Add a new drawing note in place of the deleted note above that reads as follows:

"Provide a new 10ft. high zinc coated steel wire chain link fence."

4) C2.00

a. Delete General Note #3.

b. Add new General Note #3 to read: "Gate shall be single arm gate, opening vertically, with electrical opener controlled by keypad, all components to be weatherproof.

5) C2.01

a. Change the first sentence to read:

"Contractor shall remove and dispose of approximately....."

b. Delete the second sentence.

6) A1.03, Door Schedule:

- a. In General Note #4, delete the words “as manufactured by Industrial Acoustics Company”.
- b. For Door 105B, delete fire rating requirement and delete reference to Note #02 in the remarks.
- c. For Door 123B, delete reference to Note #02 in the remarks.

- d. The proposal due date remains February 5, 2003, 2:00 pm, local time.
- e. THIS AMENDMENT MUST BE ACKNOWLEDGED.
- f. The following wage rates are incorporated by this amendment (**OH010029, dated December 13, 2002 (Rev 10) OH010029, dated January 10, 2003 (Rev 11) and OH020029, dated January 17, 2003**)

General Decision Number OH010029, dated December 13, 2002 (Rev 10)

OH010029

State: Ohio

Construction Type:

BUILDING

County(ies):

| | | |
|-----------|------------|------------|
| ADAMS | HANCOCK | OTTAWA |
| ALLEN | HARRISON | PERRY |
| ASHLAND | HIGHLAND | PICKAWAY |
| AUGLAIZE | HOCKING | PIKE |
| BELMONT | HOLMES | PREBLE |
| BROWN | HURON | RICHLAND |
| BUTLER | JACKSON | ROSS |
| CLERMONT | JEFFERSON | SANDUSKY |
| CLINTON | KNOX | SCIOTO |
| COSHOCTON | LICKING | SENECA |
| CRAWFORD | MADISON | TUSCARAWAS |
| DELAWARE | MIAMI | VINTON |
| ERIE | MONROE | WARREN |
| FAIRFIELD | MONTGOMERY | WASHINGTON |
| FAYETTE | MORGAN | WAYNE |
| FRANKLIN | MORROW | WOOD |
| GREENE | MUSKINGUM | WYANDOT |
| GUERNSEY | NOBLE | |

BUILDING CONSTRUCTION PROJECTS (Does not include single family homes and apartments up to and including four (4) stories)

Modification Number Publication Date

| | |
|----|------------|
| 0 | 03/01/2002 |
| 1 | 03/22/2002 |
| 2 | 04/05/2002 |
| 3 | 05/03/2002 |
| 4 | 06/21/2002 |
| 5 | 07/05/2002 |
| 6 | 08/09/2002 |
| 7 | 09/13/2002 |
| 8 | 10/04/2002 |
| 9 | 11/15/2002 |
| 10 | 12/13/2002 |

COUNTY(ies):

| | | |
|----------|----------|----------|
| ADAMS | HANCOCK | OTTAWA |
| ALLEN | HARRISON | PERRY |
| ASHLAND | HIGHLAND | PICKAWAY |
| AUGLAIZE | HOCKING | PIKE |
| BELMONT | HOLMES | PREBLE |

| | | |
|-----------|------------|------------|
| BROWN | HURON | RICHLAND |
| BUTLER | JACKSON | ROSS |
| CLERMONT | JEFFERSON | SANDUSKY |
| CLINTON | KNOX | SCIOTO |
| COSHOCTON | LICKING | SENECA |
| CRAWFORD | MADISON | TUSCARAWAS |
| DELAWARE | MIAMI | VINTON |
| ERIE | MONROE | WARREN |
| FAIRFIELD | MONTGOMERY | WASHINGTON |
| FAYETTE | MORGAN | WAYNE |
| FRANKLIN | MORROW | WOOD |
| GREENE | MUSKINGUM | WYANDOT |
| GUERNSEY | NOBLE | |

ASBE0002B 08/01/2002

Rates Fringes

BELMONT, JEFFERSON & MONROE COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes

application of all insulating

materials, protective coverings,

coatings and finishes to all types

of mechanical systems) 28.62 11.91

ASBE0003A 05/01/2002

Rates Fringes

ERIE (to Sandusky city limits) & HURON COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes

application of all insulating

materials, protective coverings,

coatings & finishings to all types

of mechanical systems) 28.83 10.05

ASBE0003B 05/01/2002

Rates Fringes

ASHLAND, COSHOCTON, HARRISON, HOLMES, RICHLAND, TUSCARAWAS &
WAYNE COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes

application of all insulating

materials, protective coverings

coatings & finishings to all types

of mechanical systems) 22.71 10.05

ASBE0008A 07/01/2002

Rates Fringes

ADAMS, BROWN, BUTLER (Including Fairfield, Hanover, Liberty,
Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne
Townships), CLERMONT, HIGHLAND & WARREN (Including Deerfield,
Hamilton, Harlan, Salem, Union & Washington Townships) COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes

application of all insulating

materials, protective coverings,

coatings & finishings to all types

of mechanical systems) 23.07 7.80

ASBE0041C 07/01/2002

Rates Fringes

ALLEN COUNTY:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings and finishings to all types
of mechanical systems) 23.64 8.51

ASBE0044A 07/01/2001

Rates Fringes

CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
NOBLE, PERRY, PICKAWAY, ROSS & VINTON COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings & finishings to all types
of mechanical systems) 22.28 7.28

ASBE0045A 07/01/2001

Rates Fringes

ERIE (City limits of Sandusky & Townships of Groton, Margaretta,
Oxford & Perkins), HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD &
WYANDOT COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings & finishings to all types
of mechanical systems) 24.92 11.21

ASBE0079A 06/01/2002

Rates Fringes

AUGLAIZE, BUTLER (Lemon & Madison Townships), CLINTON, GREENE,
MIAMI, MONTGOMERY, PREBLE & WARREN (Clear Creek, Franklin,
Massie, Turtle Creek & Wayne Townships) COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings & finishings to all types
of mechanical systems) 22.25 6.44

ASBE0080D 06/01/2002

Rates Fringes

JACKSON, PIKE, SCIOTO & WASHINGTON COUNTIES:

INSULATORS/ASBESTOS WORKERS (Includes
application of all insulating
materials, protective coverings,
coatings and finishings to all
types of mechanical systems);

& HAZARDOUS MATERIAL HANDLERS 24.73 10.00

ASBE0207I 06/01/2002

Rates Fringes

ALLEN COUNTY:

HAZARDOUS MATERIAL HANDLERS (Includes
preparation, wetting, stripping,

removal, scraping, vacuuming,
bagging & disposing of all
insulation materials, whether they
contain asbestos or not, from
mechanical systems) 16.60 5.70

ASBE0207N 07/01/2002

Rates Fringes

HAZARDOUS MATERIAL HANDLERS (Includes

preparation, wetting, stripping,
removal, scrapping, vacuuming,
bagging & disposing of all
insulation materials, whether they
contain asbestos or not, from
mechanical systems):

ADAMS, BROWN, BUTLER (Townships of Fairfield, Hanover, Liberty,
Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union &
Wayne), CLERMONT, HIGHLAND & WARREN (Townships of Deerfield,
Hamilton, Harlan, Salem, Union & Washington) COUNTIES

17.50 6.25

AUGLAIZE, BUTLER (Excluding Townships of Fairfield, Hanover,
Liberty, Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union
& Wayne), CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN
(Townships of Clear Creek, Franklin, Massie, Turtle Creek &
Wayne) COUNTIES

17.50 6.25

ASHLAND, COSHOCTON, ERIE (Post Offices & Townships of: Berlin,
Berlin Heights, Birmingham, Florence, Huron, Milan, Shinrock &
Vermilion), HARRISON & HURON COUNTIES

17.50 6.25

CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
NOBLE, PERRY, PICKAWAY, ROSS & VINTON COUNTIES

17.50 6.25

ERIE (Portion covered by the city limits of Sandusky, Ohio & by
the Townships of Groton, Margaretta, Oxford & Perkins), HANCOCK,
OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES

20.05 5.45

HOLMES, RICHLAND, TUSCARAWAS & WAYNE COUNTIES

14.45 3.60

BOIL0085A 07/15/2002

Rates Fringes

ALLEN, ASHLAND, AUGLAIZE, CRAWFORD, DELAWARE, ERIE, HANCOCK,
HURON, KNOX, MORROW, OTTAWA, RICHLAND, SANDUSKY, SENECA, WOOD &
WYANDOT COUNTIES:

BOILERMAKERS 26.50 11.70

BOIL0105A 09/30/2001

Rates Fringes

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAIRFIELD, FAYETTE,
FRANKLIN, GREENE, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LICKING,
MADISON, MIAMI, MONTGOMERY, MORGAN, MUSKINGUM, NOBLE, PERRY,
PICKAWAY, PIKE, PREBLE, ROSS, SCIOTO, VINTON & WARREN COUNTIES:

BOILERMAKERS 26.30 9.95

| | | | |
|--|-------|---------|--|
| ----- | | | |
| BOIL0154B 06/01/2002 | | | |
| | Rates | Fringes | |
| JEFFERSON COUNTY: | | | |
| BOILERMAKERS | 28.37 | 13.25 | |
| ----- | | | |
| BOIL0667B 10/01/2001 | | | |
| | Rates | Fringes | |
| BELMONT, MONROE & WASHINGTON COUNTIES: | | | |
| BOILERMAKERS | 25.90 | 11.09 | |
| ----- | | | |
| BOIL0744A 07/01/2002 | | | |
| | Rates | Fringes | |
| COSHOCOTON, HARRISON, HOLMES, TUSCARAWAS & WAYNE COUNTIES: | | | |
| BOILERMAKERS | 28.10 | 12.76 | |
| ----- | | | |
| BROH0003A 07/01/1998 | | | |
| | Rates | Fringes | |
| WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids) | | | |
| BRICKLAYERS & STONEMASONS | 22.50 | 6.72 | |
| ----- | | | |
| BROH0003D 07/01/1998 | | | |
| | Rates | Fringes | |
| WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids) | | | |
| MARBLE SETTERS; TERRAZZO WORKERS; | | | |
| & TILE SETTERS | 21.91 | 4.92 | |
| FINISHERS | 18.88 | 3.85 | |
| ----- | | | |
| BROH0005E 06/01/2002 | | | |
| | Rates | Fringes | |
| ASHLAND, ERIE, HURON & RICHLAND COUNTIES: | | | |
| MARBLE SETTERS' FINISHERS; TILE | | | |
| SETTERS' FINISHERS | 22.89 | 7.10 | |
| TERRAZZO WORKERS' FINISHERS | 22.92 | 7.10 | |
| ----- | | | |
| BROH0006A 05/01/2002 | | | |
| | Rates | Fringes | |
| TUSCARAWAS COUNTY: | | | |
| BRICKLAYERS; CAULKERS; CLEANERS; | | | |
| POINTERS; & STONEMASONS | 22.43 | 8.05 | |
| ----- | | | |
| BROH0006B 05/01/2002 | | | |
| | Rates | Fringes | |
| TUSCARAWAS COUNTY: | | | |
| MARBLE SETTERS, TERRAZZO WORKERS, | | | |
| TERRAZZO GRINDERS & TILE SETTERS | 20.30 | 6.45 | |
| FINISHERS | 17.90 | 6.45 | |
| ----- | | | |
| BROH0006D 05/01/2002 | | | |
| | Rates | Fringes | |
| TUSCARAWAS COUNTY: | | | |

| | | |
|---------------------------|-------|------|
| CEMENT MASONS; PLASTERERS | 22.43 | 8.05 |
|---------------------------|-------|------|

BROH0007A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

WAYNE COUNTY:

| | | |
|-------------|-------|------|
| BRICKLAYERS | 25.77 | 7.73 |
|-------------|-------|------|

BROH0007D 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

WAYNE COUNTY (Milton & Chippewa Townships):

| | | |
|---|-------|------|
| MARBLE SETTERS' FINISHERS; TERRAZZO WORKERS' FINISHERS; & TILE SETTERS' FINISHERS | 20.90 | 5.48 |
|---|-------|------|

BROH0007F 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

WAYNE COUNTY (Milton & Chippewa Townships):

| | | |
|--|-------|------|
| MARBLE SETTERS; STONEMASONS; & TERRAZZO WORKERS | 24.50 | 5.48 |
| TILE SETTERS | 23.90 | 5.48 |

BROH0008F 06/01/1998

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

COSHOCTON, HARRISON, HOLMES, JEFFERSON & WAYNE

(Excluding Milton & Chippewa Townships) COUNTIES:

| | | |
|--|-------|------|
| MARBLE SETTERS' FINISHERS & TERRAZZO WORKERS' FINISHERS | 19.82 | 3.86 |
|--|-------|------|

COSHOCTON, HOLMES, JEFFERSON (Townships of Mt. Pleasant, Warren,
Salineville & the Village of Dillonvale), & WAYNE (Excluding
Milton & Chippewa Townships) COUNTIES:

| | | |
|-------------------------|-------|------|
| TILE SETTERS' FINISHERS | 19.82 | 3.86 |
|-------------------------|-------|------|

BROH0009A 07/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, JEFFERSON (Warren & Mt. Pleasant Townships & the Village
of Dillonvale) & MONROE COUNTIES:

| | | |
|---|-------|------|
| BRICKLAYERS & STONEMASONS | 22.20 | 6.08 |
| MARBLE SETTERS; TERRAZZO WORKERS; & TILE SETTERS | 21.17 | 4.98 |

BROH0010A 06/15/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

JEFFERSON COUNTY (Brush Creek & Saline Townships):

| | | |
|---|-------|------|
| BRICKLAYERS; CAULKERS; CLEANERS; CEMENT BLOCKLAYERS; MARBLE SETTERS; POINTERS; STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS | 22.10 | 7.00 |
| TILE SETTERS' FINISHERS: | 20.00 | 7.00 |

BROH0014A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek,
Saline & Salineville Townships & the Village of Dillonvale)
COUNTIES:

| | | |
|--------------------------|-------|------|
| BRICKLAYERS; STONEMASONS | 21.13 | 9.05 |
|--------------------------|-------|------|

| | | |
|-------------------------|-------|------|
| TILE SETTERS | 20.61 | 9.05 |
| TILE SETTERS' FINISHERS | 17.61 | 9.05 |

BROH0015A 06/01/1999

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock,
Jackson, Jefferson & Elk Townships) & WASHINGTON COUNTIES:
BRICKLAYERS; BLOCKLAYERS; CAULKERS;
CLEANERS; MARBLE SETTERS; POINTERS;
STONEMASONS; TERRAZZO WORKERS; &
TILE SETTERS

| | | |
|--|-------|------|
| | 21.55 | 4.98 |
|--|-------|------|

BROH0018A 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN, BUTLER, CLERMONT, PREBLE (Gasper, Dixon, Israel, Lanier,
Somers & Gratis Townships) & WARREN COUNTIES:
BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS

| | | |
|--|-------|------|
| | 22.96 | 7.39 |
|--|-------|------|

REFRACTORY

| | | |
|--|-------|------|
| | 23.46 | 7.39 |
|--|-------|------|

BROH0018D 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN, BUTLER, CLERMONT, PREBLE (Gasper, Dixon, Israel, Lanier,
Somers & Gratis Townships) & WARREN COUNTIES:
MARBLE SETTERS,
TERRAZZO WORKERS & TILE SETTERS

| | | |
|--|-------|------|
| | 24.92 | 5.84 |
|--|-------|------|

BROH0018F 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ADAMS, BROWN, BUTLER, CLERMONT, FAYETTE, JACKSON, PIKE, ROSS,
SCIOTO, VINTON, WARREN & WASHINGTON COUNTIES:
MARBLE, TERRAZZO & TILE FINISHERS:
Finishers

| | | |
|--|-------|------|
| | 20.48 | 5.84 |
|--|-------|------|

Marble Sanders, Polishers, Waxers,
& Sawyers

| | | |
|--|-------|------|
| | 20.55 | 5.84 |
|--|-------|------|

Terrazzo Base Grinders (While
operating base grinding machine)

| | | |
|--|-------|------|
| | 20.90 | 5.84 |
|--|-------|------|

BROH0022A 11/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson,
Monroe, Harrison, Twin, Jefferson & Washington Townships)
COUNTIES:
BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; STONEMASONS

| | | |
|--|-------|------|
| | 22.50 | 6.84 |
|--|-------|------|

BROH0022B 11/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson,
Monroe, Harrison, Twin, Jefferson & Washington Townships)
COUNTIES:
MARBLE SETTERS; TERRAZZO WORKERS; &
TILE SETTERS

| | | |
|--|-------|------|
| | 22.38 | 4.52 |
|--|-------|------|

BROH0022C 05/01/2001

Rates Fringes

AUGLAIZE, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE
COUNTIES:

| | | |
|--------------|-------|------|
| FINISHERS | 20.64 | 1.50 |
| BASE MACHINE | 21.14 | 1.50 |

BROH0035A 01/01/1999

Rates Fringes

ALLEN & AUGLAIZE COUNTIES:
BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; STONEMASONS; & TILE
SETTERS

| | | |
|--|-------|------|
| | 19.80 | 5.12 |
|--|-------|------|

BROH0039A 06/01/2001

Rates Fringes

ADAMS & SCIOTO COUNTIES:
BRICKLAYERS; CAULKERS; CLEANERS;
MARBLE SETTERS; POINTERS;
STONEMASONS; TERRAZZO WORKERS; &
TILE SETTERS

| | | |
|--|-------|------|
| | 22.50 | 8.55 |
|--|-------|------|

BROH0040A 05/01/2002

Rates Fringes

ASHLAND, CRAWFORD, HOLMES, MORROW, RICHLAND, WAYNE (Except Milton
& Chippewa Townships) & WYANDOT (Except Crawford, Ridge,
Richland & Tymochtee Townships) COUNTIES:
BRICKLAYERS; BLOCKLAYERS; CAULKERS;
CLEANERS; MARBLE SETTERS; POINTERS;
STONEMASONS; TERRAZZO WORKERS &
TILE SETTERS

| | | |
|--|-------|------|
| | 22.95 | 8.25 |
|--|-------|------|

BROH0040B 05/01/2002

Rates Fringes

HOLMES & WAYNE (Except Milton & Chippewa Townships) COUNTIES:
CEMENT MASONS & PLASTERERS

| | | |
|--|-------|------|
| | 22.95 | 8.25 |
|--|-------|------|

BROH0044A 01/01/1998

Rates Fringes

COSHOCTON, FAIRFIELD, KNOX & LICKING COUNTIES:
BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS

| | | |
|--|-------|------|
| | 18.80 | 6.10 |
|--|-------|------|

GUERNSEY, HOCKING, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo,
Seneca & Wayne Townships) & PERRY COUNTIES:
BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS

| | | |
|--|-------|------|
| | 18.80 | 6.10 |
|--|-------|------|

COSHOCTON COUNTY:
CEMENT MASONS & PLASTERERS

| | | |
|--|-------|------|
| | 18.80 | 6.10 |
|--|-------|------|

GUERNSEY COUNTY:
CEMENT MASONS & PLASTERERS

| | | |
|--|-------|------|
| | 18.80 | 6.10 |
|--|-------|------|

BROH0045A 06/01/2000

Rates Fringes

FAYETTE, JACKSON, PIKE, ROSS & VINTON COUNTIES:
BRICKLAYERS; CAULKERS; CEMENT MASONS;
CLEANERS; POINTERS; & STONEMASONS

| | | |
|--|-------|------|
| | 21.25 | 7.10 |
|--|-------|------|

 BROH0046A 06/01/2002

Rates Fringes

ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of Sandusky:

BRICKLAYERS; CAULKERS; CEMENT BLOCK
 LAYERS; CLEANERS; GUNNITE MASONS;
 MARBLE SETTERS; POINTERS; REFRACTORY
 MASONS; STONEMASONS; TERRAZZO
 WORKERS; & TILE SETTERS 22.58 9.60

ERIE, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of Sandusky:

CEMENT MASONS & PLASTERERS 22.58 9.60
 HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of Sandusky:

MARBLE SETTERS' FINISHERS; TERRAZZO
 WORKERS' FINISHERS; & TILE
 SETTERS' FINISHERS 18.93 9.60

 BROH0055A 06/01/1999

Rates Fringes

DELAWARE, FRANKLIN, MADISON & PICKAWAY COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;
 POINTERS; & STONEMASONS 21.00 6.35
 RUBBLE WORK 20.17 6.35

 BROH0055B 06/01/1997

Rates Fringes

COSHOCTON, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING, JACKSON, KNOX, LICKING, MADISON, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo, Seneca & Wayne Townships), PERRY, PICKAWAY, PIKE, ROSS & VINTON COUNTIES:

MARBLE SETTERS 21.53 4.55
 TERRAZZO WORKERS & TILE SETTERS 19.60 4.50

 BROH0055D 06/01/1997

Rates Fringes

BELMONT, DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, HOCKING, KNOX, LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES:

MARBLE, TERRAZZO & TILE FINISHERS 18.50 1.05

 CARP0069A 05/01/2002

Rates Fringes

TUSCARAWAS & WAYNE COUNTIES:

CARPENTERS; SOFT FLOOR LAYERS 20.31 7.95

 CARP0069G 05/01/2002

Rates Fringes

COSHOCTON, HOLMES, KNOX & MORROW COUNTIES:
 CARPENTERS; SOFT FLOOR LAYERS 20.02 7.43

 CARP0171A 05/01/2002

Rates Fringes

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:
 CARPENTERS & SOFT FLOOR LAYERS: 20.12 9.02

 CARP0200A 06/01/2000

Rates Fringes

DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON,
 MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES:

CARPENTERS; & SOFT FLOOR LAYERS 20.51 5.68
 PILEDRIVERMEN 21.19 5.68

 CARP0248A 07/01/2001

Rates Fringes

WOOD COUNTY:

CARPENTERS & LATHERS 23.90 9.95

 CARP0248B 07/01/2001

Rates Fringes

HANCOCK & WOOD COUNTIES:

SOFT FLOOR LAYERS 22.21 10.95

 CARP0248C 07/01/2001

Rates Fringes

HANCOCK COUNTY:

CARPENTERS & LATHERS 20.05 9.95

 CARP0356A 06/01/2000

Rates Fringes

HOCKING, VINTON & WASHINGTON COUNTIES:

CARPENTERS 20.31 8.03
 PILEDRIVERS 20.61 8.03
 SOFT FLOOR LAYERS 19.91 8.03

 CARP0372A 07/01/2001

Rates Fringes

ALLEN & AUGLAIZE COUNTIES:

CARPENTERS & LATHERS 20.05 8.95

 CARP0437A 06/01/2000

Rates Fringes

ADAMS, FAYETTE, HIGHLAND, JACKSON, PIKE, ROSS & SCIOTO COUNTIES:

CARPENTERS; PILEDRIVERMEN &
 SOFT FLOOR LAYERS 22.18 8.48

 CARP0735B 05/01/2002

Rates Fringes

ASHLAND, ERIE, HURON & RICHLAND COUNTIES:

CARPENTERS; SOFT FLOOR LAYERS 19.67 7.67

 CARP1066A 09/01/1999

Rates Fringes

BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES:
MILLWRIGHTS 21.90 7.92

CARP1066B 09/01/1999

| | Rates | Fringes |
|--|-------|---------|
| GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| MILLWRIGHTS | 21.90 | 9.02 |

CARP1241A 06/01/2000

| | Rates | Fringes |
|--|-------|---------|
| DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON, MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES: | | |
| MILLWRIGHTS | 21.27 | 9.95 |

CARP1311B 06/01/2000

| | Rates | Fringes |
|---|-------|---------|
| BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES: | | |
| CARPENTERS & PILEDRIVERMEN: | | |
| (Does not include Walls & Ceiling Work) | 21.35 | 4.77 |

CARP1311D 06/01/1998

| | Rates | Fringes |
|---|-------|---------|
| GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| CARPENTERS (Does not include Acoustic Ceiling Installers, Drywall Hangers or Metal Stud Framers) & PILEDRIVERMEN | 20.60 | 4.84 |

CARP1311G 07/01/2000

| | Rates | Fringes |
|---|-------|---------|
| BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES: | | |
| CARPENTERS & LATHERS: | | |
| (Walls & Ceiling Work only) | 21.10 | 4.98 |

CARP1311O 08/15/1998

| | Rates | Fringes |
|--|-------|---------|
| GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| SOFT FLOOR LAYERS | 18.05 | 4.64 |

CARP1311P 06/01/1998

| | Rates | Fringes |
|---|-------|---------|
| GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| ACOUSTIC CEILING INSTALLERS; DRYWALL HANGERS; LATHERS; & METAL STUD FRAMERS | 19.80 | 4.64 |

CARP1393A 07/01/2000

| | Rates | Fringes |
|--|-------|---------|
| CRAWFORD, HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES: | | |
| MILLWRIGHTS & PILEDRIVERMEN | 21.61 | 11.07 |

CARP1393D 07/01/2000

| | Rates | Fringes |
|-------------------------------------|-------|---------|
| ALLEN, AUGLAIZE & WYANDOT COUNTIES: | | |

MILLWRIGHTS & PILEDRIVERMEN 20.68 9.32

 CARP1519B 06/01/2000

Rates Fringes

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PIKE, ROSS, SCIOTO &
 VINTON COUNTIES:

MILLWRIGHTS 22.51 10.24

 CARP1755C 06/01/2001

Rates Fringes

WASHINGTON COUNTY:

MILLWRIGHTS 24.39 10.16

 CARP1871A 05/01/2002

Rates Fringes

ASHLAND, ERIE, HURON & RICHLAND COUNTIES:

MILLWRIGHTS 24.75 8.74

 CARP1871B 05/01/2002

Rates Fringes

ASHLAND, ERIE, HURON & RICHLAND COUNTIES:

PILEDRIVERMEN 24.75 8.74

 CARP1871C 05/01/2002

Rates Fringes

BELMONT, HARRISON, & MONROE COUNTIES:

PILEDRIVERMEN 22.78 8.97

 CARP1871D 05/01/2002

Rates Fringes

COSHOCTON, HOLMES, KNOX & MORROW COUNTIES:

PILEDRIVERMEN 19.53 8.61

 CARP1871E 05/01/2002

Rates Fringes

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:

MILLWRIGHTS 22.78 8.97

 CARP1871K 05/01/2002

Rates Fringes

COSHOCTON, HOLMES, KNOX & MORROW COUNTIES:

MILLWRIGHTS 19.53 8.61

 CARP1871L 05/01/2002

Rates Fringes

TUSCARAWAS & WAYNE COUNTIES:

MILLWRIGHTS 20.00 8.74

 CARP1871M 05/01/2002

Rates Fringes

TUSCARAWAS & WAYNE COUNTIES:

PILEDRIVERMEN 20.00 8.74

 CARP2235D 01/01/1999

Rates Fringes

JEFFERSON COUNTY:

| | | |
|----------------|-------|------|
| PILED RIVERMEN | 22.00 | 7.85 |
|----------------|-------|------|

CARP2239A 07/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT COUNTIES:

| | | |
|------------|-------|------|
| CARPENTERS | 20.82 | 9.95 |
|------------|-------|------|

ELEC0008A 05/28/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES:

ELECTRICIANS:

| | | |
|----------------|-------|------|
| Electricians | 28.98 | 9.30 |
| Cable Splicers | 30.43 | 9.37 |

* ELEC0032A 12/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ALLEN, AUGLAIZE & WYANDOT (Crawford, Jackson, Marseilles,
Mifflin, Ridgeland, Ridge & Salem Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 24.87 | 8.18 |
|--------------|-------|------|

ELEC0032B 06/01/1998

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ALLEN & WYANDOT (Crawford, Jackson, Marseilles, Mifflin,
Richland, Ridge & Salem Townships) COUNTIES:

LINE CONSTRUCTION:

| | | |
|------------------------|-------|--------|
| Lineman | 22.52 | 4.31+a |
| Equipment Operator | 20.27 | 4.12+a |
| Groundman Truck Driver | 14.43 | 3.63+a |

FOOTNOTE:

a. Half a day's Paid Holiday: The last 4 hours of the
workday prior to Christmas or New Year's Day-----
ELEC0071C 06/03/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE,
FRANKLIN, GUERNSEY, HIGHLAND, HOCKING, JACKSON (Coal, Jackson,
Liberty, Milton, Washington & Wellston Townships), KNOX,
LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE,
PERRY, PICKAWAY, PIKE (Beaver, Benton, Jackson, Mifflin, Pebble,
Peepee, Perry & Seal Townships), RICHLAND, ROSS, TUSCARAWAS
(Auburn, Bucks, Clay, Jefferson, Oxford, Perry, Salem, Rush,
Washington & York Townships), VINTON (Clinton, Eagle, Elk,
Harrison, Jackson, Richland & Swan Townships) & WASHINGTON
COUNTIES:

LINE CONSTRUCTION:

| | | |
|-------------------------|-------|------|
| Linemen; Cable Splicers | 26.00 | 7.26 |
| Equipment Operators | 23.40 | 6.78 |
| Groundmen | 16.90 | 5.58 |

ELEC0071D 01/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

AUGLAIZE, CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

LINE CONSTRUCTION:

| | | |
|---------|-------|------|
| Lineman | 24.10 | 6.66 |
|---------|-------|------|

| | | |
|--------------------|-------|------|
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0071M 01/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BELMONT, HARRISON, HOLMES, JEFFERSON & WAYNE COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0071N 01/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN, BUTLER, CLERMONT & WARREN COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0082A 12/03/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (Wayne,
Clear Creek & Franklin Townships) COUNTIES:

ELECTRICIANS 24.34 8.12

ELEC0129F 09/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ERIE & HURON (Lyne, Ridgefield, Norwalk, Townsend, Wakeman,
Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich,
Greenfield, Fairfield, Fitchville & New London Townships)
COUNTIES:

ELECTRICIANS 27.25 6.85

ELEC0141C 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BELMONT COUNTY:

| | | |
|----------------|-------|-------|
| ELECTRICIANS | 24.58 | 10.70 |
| CABLE SPLICERS | 24.83 | 10.70 |

ELEC0212A 05/28/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN & CLERMONT COUNTIES:

ELECTRICIANS 23.53 7.20

ELEC0212B 11/01/2000

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN & CLERMONT COUNTIES:

SOUND COMMUNICATIONS:

| | | |
|--------------|-------|-------|
| Installer | 18.00 | 3.475 |
| Cable Puller | 9.00 | 2.64 |

ELEC0212D 01/18/1998

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN & CLERMONT COUNTIES:

ELECTRICAL SIGN & LUMINOUS

BUILDING INSTALLER 12.88 1.03+a

FOOTNOTE:

- a. 9 Paid Holidays: New Year's Day, Memorial Day, 4th of July, Labor Day, Thanksgiving Day, the Day after Thanksgiving, Christmas Eve, Christmas Day & New Year's Eve

ELEC0245A 09/02/2002

Rates Fringes

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES:

LINE CONSTRUCTION:

| | | |
|------------------------|-------|--------|
| Cable Splicer | 32.67 | 9.14+a |
| Lineman | 28.41 | 8.27+a |
| Heli-arc Welding | 28.71 | 8.33+a |
| Technician | 27.56 | 8.11+a |
| Operator - Class 1 | 22.73 | 7.10+a |
| Operator - Class 2 | 19.89 | 6.53+a |
| Groundman/Truck Driver | 16.99 | 5.92+a |

FOOTNOTE:

- a. 6 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day providing the employee has been on the payroll 25 calendar days prior to the holiday, and works the scheduled workdays preceding & following such holiday (except excused absences)

ELEC0246A 12/02/2001

Rates Fringes

HARRISON & JEFFERSON COUNTIES:

ELECTRICIANS 25.25 13.00+a

FOOTNOTE:

- a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday

ELEC0306D 06/03/2002

Rates Fringes

WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton & Wayne Townships) COUNTY:

ELECTRICIANS:

| | | |
|---------------|-------|------|
| Electrician | 27.75 | 8.65 |
| Cable Splicer | 29.97 | 8.75 |

ELEC0317G 06/01/1998

Rates Fringes

ADAMS, JACKSON (Bloomfield, Franklin, Hamilton, Lick, Jefferson, Scioto & Madison Townships), PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships) COUNTIES:

LINE CONSTRUCTION:

| | | |
|---------------------|-------|------|
| Linemen | 21.42 | 8.40 |
| Cable Splicers | 23.66 | 8.48 |
| Equipment Operators | 17.14 | 8.25 |
| Groundmen | 13.92 | 8.14 |

ELEC0540A 06/03/2002

Rates Fringes

HOLMES, TUSCARAWAS (North of Auburn Clay, Rush & York Townships),
& WAYNE (South of Baughman, Chester, Green & Wayne Townships)

COUNTIES:

| | | |
|--------------|-------|-------|
| ELECTRICIANS | 24.56 | 11.70 |
|--------------|-------|-------|

ELEC0540C 06/05/1997

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

TUSCARAWAS COUNTY (North of Auburn, Clay, Rush & York Townships)

LINE CONSTRUCTION:

| | | |
|---------------------------|-------|------|
| Lineman; & Cable Splicer | 21.86 | 9.01 |
| Line Equipment Operator | 19.02 | 8.69 |
| Groundman; & Truck Driver | 14.65 | 8.18 |

ELEC0575A 05/29/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin,
Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson,
Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek,
Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver,
Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp
Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS,
SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson,
Richland & Swan Townships) COUNTIES:

| | | |
|--------------|-------|-------|
| ELECTRICIANS | 26.50 | 7.325 |
|--------------|-------|-------|

ELEC0575D 11/27/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PICKAWAY (Deer Creek,
Perry, Pickaway, Salt Creek & Wayne Townships), PIKE, ROSS,
SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson,
Richland & Swan Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|--------------|-------|------|
| Installer | 18.18 | 4.18 |
| Cable Puller | 9.46 | 3.91 |

ELEC0648A 09/02/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BUTLER & WARREN (Deerfield, Hamilton, Harlan, Massie, Salem,
Turtle Creek, Union & Washington Townships) COUNTIES:

ELECTRICIANS:

| | | |
|----------------|-------|------|
| Electricians | 23.53 | 6.63 |
| Cable Splicers | 24.03 | 6.65 |

ELEC0683A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville,
Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto,
Walnut & Washington Townships) COUNTIES:

ELECTRICIANS:

| | | |
|----------------|-------|------|
| Electricians | 26.20 | 7.59 |
| Cable Splicers | 26.80 | 7.60 |

ELEC0683F 11/27/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville,

Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto,
Walnut & Washington Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|---------------|-------|------|
| Installers | 18.17 | 4.08 |
| Cable Pullers | 9.60 | 3.82 |

ELEC0688A 06/03/2002

Rates Fringes

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley &
Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard,
Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown &
Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore,
Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 24.75 | 9.09 |
|--------------|-------|------|

ELEC0688B 11/27/2000

Rates Fringes

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley &
Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard,
Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown &
Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore,
Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|---------------|-------|------|
| Installers | 18.23 | 4.05 |
| Cable Pullers | 9.65 | 3.79 |

ELEC0867B 06/01/1998

Rates Fringes

ERIE COUNTY:

LINE CONSTRUCTION:

| | | |
|---|-------|------|
| Lineman; Cable Splicer; & Equipment Operator | 20.75 | 4.09 |
| Truck Driver (Winch) Groundman; & Groundman | 13.49 | 3.87 |

ELEC0972A 06/01/2000

Rates Fringes

MONROE, MORGAN, NOBLE, VINTON (Brown, Knox, Madison, Vinton &
Wilkesville Townships) & WASHINGTON COUNTIES:

ELECTRICIANS:

| | | |
|----------------|-------|-------|
| Electricians | 23.30 | 12.61 |
| Cable Splicers | 23.55 | 12.62 |

ELEC1105A 06/04/2001

Rates Fringes

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller,
Milford, Hilliar, Butler, Harrison, Pleasant & College
Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn,
York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry &
Bucks Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 22.12 | 6.56 |
|--------------|-------|------|

ELEC1105B 11/27/2000

Rates Fringes

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller,

Milford, Hillard, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|--------------|-------|------|
| Installer | 17.95 | 4.40 |
| Cable Puller | 9.38 | 4.14 |

ELEV0006C 01/30/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT & JEFFERSON COUNTIES:

| | | |
|--------------------|-------|-----------|
| ELEVATOR MECHANICS | 27.65 | 7.195+a+b |
|--------------------|-------|-----------|

FOOTNOTES:

- a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day After Thanksgiving; & Christmas Day.
- b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; Employer contributes 6% of regular hourly rate to vacation pay credit for employee who has worked in business less than 5 years.

ELEV0006D 01/30/1998

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

GUERNSEY, HARRISON, MONROE, NOBLE & WASHINGTON COUNTIES:

| | | |
|--------------------|-------|-----------|
| ELEVATOR MECHANICS | 24.99 | 6.405+a+b |
|--------------------|-------|-----------|

FOOTNOTES:

- a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day After Thanksgiving; & Christmas Day.
- b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; Employer contributes 6% of regular hourly rate to vacation pay credit for employee who has worked in business less than 5 years.

ELEV0011A 06/22/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN COUNTIES:

| | | |
|--------------------|--------|-----------|
| ELEVATOR MECHANICS | 26.255 | 7.455+a+b |
|--------------------|--------|-----------|

FOOTNOTES:

- a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day
- b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service.

ELEV0017A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ERIE & HURON COUNTIES:

| | | |
|--------------------|--------|-----------|
| ELEVATOR MECHANICS | 30.205 | 7.455+a+b |
|--------------------|--------|-----------|

FOOTNOTES:

- a. 7 Paid Holidays: New Year's Day; Memorial Day;

Independence Day; Labor Day; Thanksgiving Day; Day After Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0037A 07/16/2000

Rates Fringes

ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, HOLMES, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS, TUSCARAWAS & VINTON COUNTIES:

ELEVATOR MECHANICS 25.335 7.195+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0044A 07/31/2000

Rates Fringes

ALLEN, AUGLAIZE, HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES:

ELEVATOR MECHANICS 28.385 7.195+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 yrs.; 6% for less than 5 yrs.

ELEV0045A 07/09/2000

Rates Fringes

WAYNE COUNTY:

ELEVATOR MECHANICS 27.305 7.195+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0048C 09/28/1998

Rates Fringes

JACKSON, PIKE & SCIOTO COUNTIES:

ELEVATOR MECHANICS 22.795 6.12+a+b

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving Day; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation

pay credit for employee who has worked in business more than
5 years; 6% for less than 5 years' service

ENGI0018A 05/01/2002

Rates Fringes

ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER,
CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD,
FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK, HARRISON,
HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LICKING,
MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM,
NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS,
SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN,
WASHINGTON, WAYNE & WYANDOT COUNTIES:

POWER EQUIPMENT OPERATORS:

| | | |
|---------|-------|------|
| GROUP 1 | 26.09 | 7.10 |
| GROUP 2 | 25.84 | 7.10 |
| GROUP 3 | 25.59 | 7.10 |
| GROUP 4 | 25.34 | 7.10 |
| GROUP 5 | 25.22 | 7.10 |
| GROUP 6 | 24.18 | 7.10 |
| GROUP 7 | 23.00 | 7.10 |
| GROUP 8 | 17.84 | 7.10 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted
on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry
Picker; Combination Concrete Mixer & Tower; Concrete Pump with
Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or
Suction) 3 Man Crew; Elevating Grader or Euclid Loader;
Floating Equipment; Forklift(rough terrain with winch/hoist)
Gradall; Helicopter Operator & Helicopter Winch Operator
(Hoisting Builders Materials); Hoe; Hoist (Two or More Drums);
Horizontal Directional Drill; Hydraulic Gantry (Lift System);
Laser Finishing Machine; Laser Screed and Like Equipment; Slab
or Panel Jack; Locomotive; Maintenance Engineer (Mechanic);
Mixer, Paving (Multiple Drum); Mobile Concrete Pump With Boom;
Panelboard; Pile Driver; Power Shovel; Prentice Loader; Rail
Tamper with automatic lifting & align device; Rotary Drill
used on Caisson Work for Foundations & Substructure work; Side
Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over
24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader
with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; C.M.I.
Type Equipment; Concrete Grinder/Planer; Endloader; Hydro
Milling Machine; Kolman Type Loader (Dirt Loading); Lead
Grease Man; Mucking Machine; Pettibone-Rail Equipment; Power
Grader; Power Scoop; Power Scraper; Push Cat; & Vermeer Type
Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or
Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader
with or without Attachments; Concrete Pump without Booms & with
5" System; Highway Drillers with Integral Power; Hoist (One
Drum); Boiler (15 lbs. pressure & over); ForkLift (except

Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Guniting Machine; Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor (Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All; Concrete Pump without Booms with 4" or Smaller System; Self-Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15 lbs. pressure); Directional Drill "Locator"; Masonry Fork Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Pump (Under 4" discharge); Signal Person; & Submersible Pump (Under 4" discharge)

ENGI0018B 05/01/2002

Rates Fringes

ERIE & HURON COUNTIES:

POWER EQUIPMENT OPERATORS:

| | | |
|--------------------------------|-------|------|
| Crane (Boom & Jib 300' & Over) | 29.17 | 7.06 |
|--------------------------------|-------|------|

| | | |
|---|-------|------|
| Crane (Boom & Jib 200' & Over, Up to 299'); Master Mechanic | 28.92 | 7.06 |
|---|-------|------|

| | | |
|---------|-------|------|
| GROUP 1 | 28.42 | 7.06 |
|---------|-------|------|

| | | |
|---------|-------|------|
| GROUP 2 | 28.27 | 7.06 |
|---------|-------|------|

| | | |
|---------|-------|------|
| GROUP 3 | 27.12 | 7.06 |
|---------|-------|------|

| | | |
|---------|-------|------|
| GROUP 4 | 26.34 | 7.06 |
|---------|-------|------|

| | | |
|---------|-------|------|
| GROUP 5 | 26.02 | 7.06 |
|---------|-------|------|

| | | |
|---------|-------|------|
| GROUP 6 | 19.24 | 7.06 |
|---------|-------|------|

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - A-Frame; Boiler or Compressor Operator, Hydraulic Pump & Power Pads Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Gradall; Helicopter Operator & Helicopter Winch Operator (When Hoisting Builders Materials); Hoe; Hoist (Two or More Drums); Lift Slab or Panel Jack Operator; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump, with Boom; Panelboard; Pile Driver; Power Shovel; Robotic Equipment;

Operator/Mechanic; Rotary Drill used on Caisson Work for Foundations & Substructure Work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 2 - Asphalt Paver; Bulldozer; C.M.I. Type Equipment; End Loader; Kohlman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Power Grader; Power Scoop; Power Scraper; & Push Cat; Horizontal Directional Drill Locator; Horizontal & Directional Drill Operator

GROUP 3 - Air Compressor (Pressurizing Shafts & Tunnels); Asphalt Roller; Fork Lift; Hoist (One Drum); House Elevator (Except Automatic Call Button-controlled); Man Lift; Mud Jack; Power Boiler (Over 15 lbs. Pressure); Pressure Grouting; Pump Operator (Installing Well Points or other type of Dewatering system); Trencher (24" & under); & Utility Operator

GROUP 4 - Compressor; Conveyor; Generator; Guniting Machine; Concrete Mixer (Capacity more than one bag); Concrete Mixer (One Bag capacity, Side Loader); Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; & Roller

GROUP 5 - Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap and Curing Machine; Cleaning Machine (decontamination included); Clefplane; Concrete Spreader Machine; Crusher; Deck Hand; Drum Fireman (In Asphalt Plant); Farm-type Tractor (Pulling attachment); Finishing Machine; Fork Lift (Masonry Work); Form Trencher High Pressure Pump (Over 1/2" discharge); Hydro Seeder; Pump (4" and Over discharge); Submersible Pump (4" and Over discharge); Self-propelled Power Spreader; Self-propelled Sub-grader; Tire Repairman; Tractor (Pulling Sheeps Foot Roller or Grader); & Vibratory Compactor (With Integral Power)

GROUP 6 - Inboard & Outboard Motor Boat Launch; Light Plant Operator; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Power Boiler (Less than 15 lbs. Pressure); Pump (Under 4" discharge); Submersible Pump (Under 4" discharge); Signaller; Bob Cat-type and/or Skid Steer Loader; Grade Checker; & VAC/ALL

 ENGI0018G 05/01/2002

Rates Fringes

WOOD COUNTY:

POWER EQUIPMENT OPERATORS:

| | | |
|---------|-------|------|
| GROUP 1 | 26.84 | 7.10 |
| GROUP 2 | 26.59 | 7.10 |
| GROUP 3 | 26.34 | 7.10 |
| GROUP 4 | 26.09 | 7.10 |
| GROUP 5 | 25.97 | 7.10 |
| GROUP 6 | 24.93 | 7.10 |
| GROUP 7 | 23.75 | 7.10 |
| GROUP 8 | 18.59 | 7.10 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry

Picker; Combination Concrete Mixer & Tower; Concrete Pump with Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Forklift(rough terrain with winch/hoist) Gradall; Helicopter Operator (Hoisting Builders Materials); Helicopter Winch Operator (Hoisting Building Materials); Hoe; Hoist (Two or More Drums); Horizontal Directional Drill; Hydraulic Gantry (Lift System); Laser Finishing Machine; Laser Screed and Like Equipment; Lift Slab or Panel Jack; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump (With Boom); Panelboard; Pile Driver; Power Shovel; Prentice Loader; Concrete Pump with Boom; Rail Tamper with automatic lifting & align device; Rotary Drill used on Caisson Work for Foundations & Substructure work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; Power Grader; C.M.I. Type Equipment; Concrete Grinder/Planer; Endloader; Push Cats; Hydro Milling Machine; Kolman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Pettibone-Rail Equipment; Power Scoop; Power Scraper; & Vermeer Type Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drillers with Integral Power; Hoist (One Drum); Boiler (15 lbs. pressure & over); Concrete Pump without Booms with 5" System; ForkLift (except Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Gunit Machine; Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor (Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All; Concrete Pump without Booms & With 4" System or Smaller; Self-Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15 lbs. pressure); Directional Drill "Locator"; Masonry Fork Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Pump (Under 4" discharge); Signal Person; & Submersible Pump

(Under 4" discharge)

IRON0017A 08/01/2002

Rates Fringes

ERIE (Eastern 2/3) & HURON (East of a line drawn from the north border through Monroeville & Willard) COUNTIES:

IRONWORKERS:

Ornamental; Reinforcing & Structural 25.55 13.63

IRON0044A 06/01/2002

Rates Fringes

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES:

IRONWORKERS:

Ornamental; Structural 23.45 10.88
Fence Erector 21.11 10.88

IRON0055A 07/01/2002

Rates Fringes

CRAWFORD (Area between lines drawn from where Hwy #598 & #30 meet through North Liberty to the northern border & from said Hwy junction point due west to the border), ERIE (Western one-third), HANCOCK, HURON (West of a line drawn from the northern border through Monroeville & Willard), OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT (North of Rte. #30) COUNTIES:

IRONWORKERS:

Fence Erector 18.43 12.02
Pre-Engineered Metal Building 19.43 12.41
Furnaces & Kilns (Temperature units over 125 degrees Fahrenheit) 25.15 12.41
All Other Work 24.15 12.41

IRON0147B 06/01/2001

Rates Fringes

ALLEN COUNTY (Northern half):

IRONWORKERS 21.20 10.67

IRON0172A 06/01/2002

Rates Fringes

COSHOCOTON (West of a line beginning at the northwest county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, MADISON, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE, ROSS, VINTON & WYANDOT (South of Rte. #30) COUNTIES:

IRONWORKERS 23.90 10.41

IRON0290A 06/01/2002

Rates Fringes

ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrrtown & Woodsdale), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), MIAMI, MONTGOMERY, PREBLE & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the west county line) COUNTIES:

IRONWORKERS

Within 25 mile radius of

L.U. #290 Office, Dayton 23.10 10.75

Beyond 25 mile radius of

L.U. #290 Office, Dayton 23.25 10.75

IRON0372A 06/01/2002

Rates Fringes

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES:

IRONWORKERS, Reinforcing:

Up to & including 30-mile radius

of Hamilton County Courthouse 22.71 10.47

Beyond 30-mile radius of Hamilton

County Courthouse 22.96 10.47

IRON0549C 07/01/2002

Rates Fringes

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM (Excluding portion west of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the south border) COUNTIES:

IRONWORKERS 24.78 12.41

IRON0550A 05/01/2002

Rates Fringes

ASHLAND, COSHOCTON (E. of a line beginning at NW Co. line going through Walhonding & Tunnel Hill to the South Co. line), HOLMES, HURON (S. of Old Route #224), RICHLAND, TUSCARAWAS & WAYNE COUNTIES:

IRONWORKERS:

Ornamental; Reinforcing; &

Structural 21.26 11.42

Fence Erector 17.53 11.42

IRON0769C 06/01/2002

Rates Fringes

ADAMS (Eastern Half), JACKSON (Southern Half) & SCIOTO COUNTIES:

IRONWORKERS:

ZONE 1 24.92 11.14

ZONE 2 25.32 11.14
 ZONE 3 27.32 11.14
 ZONE 1 - Up to 10 mile radius of Union Hall, Ashland, Ky.,
 1643 Greenup Ave.
 ZONE 2 - 10 to 50 mile radius of Union Hall, Ashland, Ky.,
 1643 Greenup Ave.
 ZONE 3 - 50 mile radius & over of Union Hall, Ashland, Ky.,
 1643 Greenup Ave.

 IRON0787B 06/01/2002

| | Rates | Fringes |
|--------------------------------------|-------|---------|
| MORGAN, NOBLE & WASHINGTON COUNTIES: | | |
| IRONWORKERS | 24.33 | 10.90 |

 LABO0083A 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| ADAMS, HIGHLAND, JACKSON, PIKE, ROSS, SCIOTO & VINTON COUNTIES: | | |
| LABORERS: | | |
| GROUP 1 | 24.47 | 4.40 |
| GROUP 2 | 24.72 | 4.40 |
| GROUP 3 | 24.97 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Carpenter Tender; Bottom Man; Mason Tender; Mortar Mixer; Pipe Layer; Plasterer Tender; Sheeting & Shoring Man; & Signalman

GROUP 2 - Air & Machine Driver Tool Operator; Asphalt Raker & Smoother; Burning & Cutting Torch; Chain Saw; Form Setter (Street & Highway); Hand Spiker; & Powered Concrete Buggy

GROUP 3 - Gunnite Machine Operator; Gunnite Nozzle Man; Miner (Tunnel & Caisson); Mucker (Tunnel & Caisson); & Powder Man & Blaster

HAZARDOUS & HIGH WORK IN EXCESS OF 25 FEET ABOVE SOLID BASE -
 \$.25 PREMIUM

WORKERS HANDLING CREOSOTED OR INJURIOUS CHEMICALLY TREATED MATERIALS - \$.25 PREMIUM

THE ERECTION, ALTERATION, REPAIR OR DEMOLITION OF REINFORCED CONCRETE CHIMNEYS, MASONRY CHIMNEYS, SILOS, & FURNACES RECEIVE THE FOLLOWING RATES:

0 TO 25 FEET - BASE RATE; 25 TO 100 FEET - \$1.00 PREMIUM;
 100 TO 150 FEET - \$1.25 PREMIUM; 150 TO 200 FEET - \$1.50 PREMIUM;
 200 TO 250 FEET - \$1.75 PREMIUM; OVER 250 FEET - \$2.00 PREMIUM

 LABO0134A 05/01/2002

| | Rates | Fringes |
|--|-------|---------|
| COSHOCTON, HOLMES & TUSCARAWAS COUNTIES: | | |
| LABORERS: | | |
| GROUP 1 | 18.96 | 4.40 |
| GROUP 2 | 19.26 | 4.40 |
| GROUP 3 | 19.74 | 4.40 |
| GROUP 4 | 20.01 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalman; Flagman; Carpenter Tender; Finisher Tender; Concrete Handler; Utility Construction; Guard Rail Erector; & Hazardous Waste Removal (Level D) Personal Protective Equipment (PPE)

GROUP 2 - Bottom Man; Scaffold Builder; Tunnel; Pipe Layer; Air
& Power Driven Tool; Burner on Demolition Work; Swinging
Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man
& Dynamite Blaster; Creosote Worker; Form Setter; Plasterer
Tender; Hod Carrier; All Confined Space Work; Furnaces; Pickel
Tubs; Acid Pits & Hazardous Waste Removal (Level C) Personal
Protective Equipment (PPE)

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender;
Skid Steer Loader; & Hazardous Waste Removal (Level B)
Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A)
Personal Protective Equipment (PPE)

LABO0265A 06/01/2002

Rates Fringes

BROWN, CLERMONT & CLINTON COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 20.00 | 4.65 |
| GROUP 2 | 20.10 | 4.65 |
| GROUP 3 | 20.15 | 4.65 |
| GROUP 4 | 20.20 | 4.65 |
| GROUP 5 | 20.50 | 4.65 |
| GROUP 6 | 20.75 | 4.65 |

LABORER CLASSIFICATIONS

GROUP 1 - Building and Common Laborer; Asbestos Removal; Cement
Mason Tender; Hand-Operated Mechanical Mule; Mechanical
Mule; Mechanical Sweeper; Signaler; Flagger; Wrecking
Laborer

GROUP 2 - Bottom Man; Pipe Layer

GROUP 3 - Skid Steer; Burning Torch Operator; Jack Hammer;
Air Spade; Chipping Hammer; Mechanical and Air Tamper
Operator; Mechanical Concrete Buggy; Power Operated
Mechanical Mule; Concrete Pump Hose Man; Vibrator Man;
CERCLA Trained Hazardous Material Removal-Levels A,B,C

GROUP 4 - Bottom Jack Hammer Man

GROUP 5 - Tunnel Laborer

GROUP 6 - Gunnite Nozzle Operator

LABO0265C 06/01/1997

Rates Fringes

BROWN, CLERMONT & CLINTON COUNTIES:

PLASTERERS' TENDERS:

| | | |
|---------------------|-------|------|
| Tender | 18.30 | 3.90 |
| Mixer Pump Operator | 18.45 | 3.90 |

LABO0265G 06/01/2002

Rates Fringes

BROWN, CLERMONT & CLINTON COUNTIES:

LABORERS, Mason Tenders 21.65 4.65

LABO0329A 05/01/2002

Rates Fringes

ALLEN & AUGLAIZE COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.80 | 4.00 |
|---------|-------|------|

| | | |
|---------|-------|------|
| GROUP 2 | 19.95 | 4.00 |
| GROUP 3 | 20.10 | 4.00 |
| GROUP 4 | 20.30 | 4.00 |

LABORER CLASSIFICATION

GROUP 1 - Building; Signal Person; Power Wheelbarrow or Power Buggy; Removal of Asbestos & Hazardous Waste (Levels C & D)

GROUP 2 - Vibrator; Cement Finisher Tender; Cement Raker; Asphalt Raker; Tamper & Packer; Pump Man Under 4" Discharge; Caisson; Cofferdam; Tunnel Spiker Railroad (By Hand); Pot Tender; Torch Man; Demolition; Machine Driven Tools (Gas, Electric, Air)

GROUP 3 - Plaster Tender; Mortar Mixer; Cylinder, Shaft; Sewer, Water Conduit; Gas, Oil Pipeline, except Mainlines; Sewer Bottom Man; Sewer Pipe Layer; Manhole Builder; Blaster Tender; Wagon Drill Tender; Jack Hammer; Guniting Operator; Mucker (Tunnel & Caisson) Free Air; Miner (Tunnel & Caisson) Free Air; Sand Blaster; Blaster-Powder Man; Wagon Drill/Operator; & Removal of Toxic & Hazardous Waste (Levels A & B)

GROUP 4 - Mason Tender

LABO0423A 06/01/2002

Rates Fringes

FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, LICKING, MADISON & PICKAWAY COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.98 | 4.40 |
| GROUP 2 | 19.29 | 4.40 |
| GROUP 3 | 19.60 | 4.40 |
| GROUP 4 | 19.91 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - General laborers; Carpenter tender; Cathodic protection; Cleaning debris; Cleaning of all material; General clean-up including vacuum cleaning, scraping and cleaning of walls and floors; Landscape; Installation and removal of fencing; Sod layers; All portable heaters; Flagman; Loading and unloading of all trucks; Handling and conveying all materials; Washing of all windows; Conveyor belt; Jurisdiction over the use of all water pumps up to and including 3 inch intake

GROUP 2 - Skid steer specialist; Concrete specialist; Brick tender; Stone mason tender; Plaster tender; Mortar mixer and operator; Cement mason tender; Construction specialist; All scaffold builders; Bush hammering; Jack hammer operator; Air or electrical pneumatic tool operator; Power driven tools; Power buggy operators; Pouring and placement of all concrete; Power wheelbarrow operator; Asphalt and blacktop rakers; Wall wrecker and bar man on demolition; Sand blasting and chipping; Welders on demolitions; Grade checkers; A person on a bucket pouring concrete; Guniting nozzle man; Wagon and churn drill operator; Concrete saw operator; Brush feeders on pulverizers; Pipe layers; Pavers set in sand; Bottom man; Laser gun; Burners; Sand blasting of concrete; Vibrator man; Steward; Signal man; Caisson; Caisson bottom man; Pile drivers; Asbestos and lead abatement laborers; Hazardous waste level B

GROUP 3 - Hazardous waste level C

GROUP 4 - Hazardous waste level D

LABO0480A 06/01/2002

Rates Fringes

ERIE, HURON, OTTAWA & SANDUSKY COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 21.91 | 4.40 |
| GROUP 2 | 22.11 | 4.40 |
| GROUP 3 | 22.51 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction Laborer; Carpenter Tender; Concrete Handler; Finisher Tender; Guard Rail Erector; Railroad Spur Work; Utility Construction Laborer; Signal Person; & Flagperson

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on Demolition Work; Caisson Worker; Cofferdam Worker; Creosote Worker; Form Setter; Hod Carrier; Mason Tender; Mortar Mixer; Mucker; Pipelayer; Plasterer Tender; Powder Man & Dynamite Blaster; Scaffold Builder; Stonemason Tender; Swinging Scaffold; Tunnel Laborer; & Wet & Dry Vacuum Devices

GROUP 3 - Caustic Lime Worker; Dry Sandblast; Gunnite Operator; Radioactive Atmosphere Worker (Special wearing apparel required); Asbestos Removal; & Hazardous Waste Removal

LABO0500A 07/01/2002

Rates Fringes

WOOD COUNTY:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.50 | 6.57 |
| GROUP 2 | 19.70 | 6.57 |
| GROUP 3 | 19.90 | 6.57 |
| GROUP 4 | 20.00 | 6.57 |
| GROUP 5 | 9.98 | 6.57 |
| GROUP 6 | 13.00 | 6.57 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalperson; Flagperson; Carpenter Tender; Utility Construction; Guard Rail Erector; Deep Cleaning; & Hazardous Waste (Level A)

GROUP 2 - Finisher Tender; Concrete Handler; Bottom Man; Scaffold Builder; Tunnel Laborer; Pipelayer; Air & Power Driven Tools; Burner on Demolition Work; Swinging Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man & Dynamite Blaster; Creosote Worker; Mortar Mixer; Form Setter; Mason Tender; Plasterer Tender; Hod Carrier; Stonemason Tender & Hazardous Waste (Level B)

GROUP 3 - Guniting Operator & Hazardous Waste (Level C)

GROUP 4 - Hazardous Waste (Level D)

GROUP 5 - Parking & Landscaping

GROUP 6 - Installation of Fencing

FIREBRICK WORK OVER 50 FEET, EXPEDITERS, HOT PAY, BOTTOM MAN & TOP MAN - \$.75 PER HOUR OVER GROUP 1.

LABO0530A 06/01/2002

Rates Fringes

GUERNSEY, MUSKINGUM, NOBLE & PERRY COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.57 | 4.40 |
| GROUP 2 | 18.82 | 4.40 |
| GROUP 3 | 19.07 | 4.40 |
| GROUP 4 | 20.07 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Carpenter Tender; Tree Planter; Landscape Tree Trimmer; & Asbestos Removal, Hazardous Waste Removal

GROUP 2 - Air & Machine Driven Tool Operator; Asphalt Plant Aggrement Operator; Asphalt Plant Mixer Man; Car Pusher and Tunnel Laborer; Caulker; Cement Handler; Concrete Puddler (Behind Mixer); Curb Cutter & Setter; Cutting with Burning Torch; Dumpman; Hand Spiker (Railroad); Jackhammer Operator; Mucker (Tunnel & Caisson); Pipelayer; Proportioning Plant Operator; Pump Man; Road Form Setter; Sewer Bottom Man; Sheeting & Shoring Man; Vibrator Operator; & Yarnier & Wrench Man

GROUP 3 - Mason Tender; Mortar Mixer Man; Brick Slinger; Stone Mason Tender; Plaster Tender; Lock Tender; Brick Dropper

GROUP 4 - Powder Man or Blaster; & Toxic/Hazardous Waste

LABO0534A 06/01/2002

Rates Fringes

BUTLER & WARREN COUNTIES:

LABORERS:

| | | |
|----------|-------|------|
| GROUP 1 | 20.14 | 4.40 |
| GROUP 2 | 20.24 | 4.40 |
| GROUP 3 | 20.34 | 4.40 |
| GROUP 4 | 20.47 | 4.40 |
| GROUP 5 | 20.72 | 4.40 |
| GROUP 6 | 20.49 | 4.40 |
| GROUP 7 | 20.74 | 4.40 |
| GROUP 8 | 20.63 | 4.40 |
| GROUP 9 | 20.59 | 4.40 |
| GROUP 10 | 20.84 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Common Laborer; Rough Rider - 4" Small Pump; Portable Generator - Bobcat to Cleanup

GROUP 2 - Asphalt Raker; Chisel; Hand Air Pump; Hand Air Tamper; Handling & Laying Precast Concrete Floor & Deck; Power Tamper Operator; Smoother; Switch Assemblies; & Tamper

GROUP 3 - Concrete Specialist; Skid Steer (to perform laborers' duties); Jack Hammer and Concrete Busterman; Barco Tamper Man; Power Georgia Buggy Man; Power Sweeper Man; Vibrator; Concrete Saw Man; Rail Spikers; Acetylene Burner Pipe Layers; Bos'N or Cradleman; Bottom Man; Chipping Hammer Grade Checker; Form Cleanout and Blowout Man; Red Concrete Coloring Man (Electrical Safety)

GROUP 4 - Mason Tender; Mortar Mixer & Scaffold Builder

GROUP 5 - Forklift for Mason; Work involving Refractory Materials, including Demolition; Asbestos Removal & Hazardous Waste Removal (Handling, control, removal, abatement, encapsulation or disposal of asbestos & hazardous waste)

GROUP 6 - Gunnite Man; Sand Blaster Concrete Pump & Hose Man;
& Blast Trac

GROUP 7 - Miner & Mucker, Free Air

GROUP 8 - Powderman or Blaster Above Ground

GROUP 9 - Mortar or Gypsum Machineman

GROUP 10 - Powderman Underground; & Scuba Diver

LABO0574A 05/01/2002

Rates Fringes

DELAWARE COUNTY:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.98 | 4.00 |
| GROUP 2 | 19.29 | 4.00 |
| GROUP 3 | 19.60 | 4.00 |
| GROUP 4 | 19.91 | 4.00 |

HANCOCK, SENECA & WYANDOT COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 20.55 | 4.00 |
| GROUP 2 | 20.85 | 4.00 |
| GROUP 3 | 21.05 | 4.00 |
| GROUP 4 | 21.25 | 4.00 |

LABORER CLASSIFICATIONS

GROUP 1: Building & Construction; Signalman; Flagman;
Carpenter Tender; Finisher Tender; Concrete Handler; Utility
Construction; Guard Rail Erector; Fence Installer; Caulker; &
Hazardous Waste (Level A)

GROUP 2: Bottom Man; Scaffold; Mucker; Caisson Worker; Powder
Man; Dynamite Blaster; Creosote Worker; Mortar Mixer; Form
Setter; Plasterer Tender; Hod Carrier; Stonemason Tender &
Hazardous Waste (Level B)

GROUP 3: Mason Tender; Guniting Operator & Hazardous Waste
(Level C)

GROUP 4: Hazardous Waste (Level D)

LABO0639A 06/01/2002

Rates Fringes

MONROE, MORGAN & WASHINGTON COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 23.42 | 4.08 |
| GROUP 2 | 23.77 | 4.08 |

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Plant Aggregrator; Asphalt Plant Miner Man;
Brick Slinger; Building & Construction; Car Pusher & Tunnel
Laborer; Carpenter Tender; Cement Handler; Concrete Puddler
Behind Mixer; Concrete Smoother; Drum Fireperson; Dump Man
Batch Truck; Flagperson; Landscape Planter; Proportioning
Plant Operator; Rammer Man; & Spreader Box Man

GROUP 2 - Air, Gas or Machine Driven Tool; Asphalt Raker;
Tamper, Forker, Shoveler or Smoother; Caulker, Yarnier &
Wrenchman; Cement Mason Tender; Curb Setter & Cutter; Form
Setter; Grade Checker; Jackhammer Operator; Mason Tender;
Mortar Mixer; Mucker (Tunnel & Caisson); Pipelayer; Pump Man
(4" & Under); Sewer Bottom Man; Sheeting & Shoring Man;
Stonemason Tender; Vibrator Operator; Plasterer Tender; Hand
Spiker (Railroad); Concrete & Georgia Buggy Pusher; Deep Trench

Work (Over 6'); Cutting & Burning Torch; Hydro-Water Jet
Operator; Brick Dropper; Lock Tender; Miner (Tunnel & Caisson);
Powderman or Blaster; & Signallerperson

LABO0809A 07/01/2002

Rates Fringes

HARRISON & JEFFERSON COUNTIES:

LABORERS:

| | | |
|----------|-------|------|
| GROUP 1 | 19.82 | 5.40 |
| GROUP 2 | 19.99 | 5.40 |
| GROUP 3 | 20.02 | 5.40 |
| GROUP 4 | 20.06 | 5.40 |
| GROUP 5 | 20.15 | 5.40 |
| GROUP 6 | 20.32 | 5.40 |
| GROUP 7 | 20.35 | 5.40 |
| GROUP 8 | 20.50 | 5.40 |
| GROUP 9 | 20.65 | 5.40 |
| GROUP 10 | 20.72 | 5.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Carpenter Tender; Flagperson; General; Landscaper;
& Hazardous Waste Level D

GROUP 2 - Brick Handler; Tender for Brick Mason, Plasterer &
Stonemason; Mortarman for Mason & Plasterer; Man Mixing Cement
for Cement Finisher; Scaffold Builder; Mortar Mixer Machine
Operator; Fork Lift; Hazardous Waste Level C; Fork Truck; Walk
Behind Concrete Saw; Form Setter; Epoxy; Paving Brick; Dry
Block; Precast, Lagging, Decorate Blocks & Sand Stone

GROUP 3 - Concrete Buster; Jack Hammer; Air Spade; Chipping
Hammer; Air Tamper; Vibrator; Power Buggy; Concrete Saw; Power
Saw; Sandblaster; Acetylene Burner; Scuba Diver; Panel Cleaning
Machine Operator; Signaller; Power Driven Tool; Air Pump; Air
Blow Pipe; Pipelayer & Tender Working in Ditch or Tunnel; Hand
Spiker on Railroad & Handling Concrete for Test or Working with
Tar, Acid, Creosote & Asbestos, 2" & Under; Skid Steers;
Hazardous Waste Level B; Fire Hose; High Pressure Water Hose;
Super Sucker; Vacuum Truck & Hose; Core Driller; Drilling For
Anchor Bolts; & Dowel Rods & Pins

GROUP 4 - Ditch, Trench, Caisson & Coffor Over 6' deep, Open
Top

GROUP 5 - Work Pertaining to or in connection with & Repair of
Stove, Blast Furnace, Basic Oxygen Process Furnace, Basic
Oxygen Furnace, Steeple & Stack, Annealing Process Furnace,
Kiln, Soaking Pit, Coke Battery on Industrial Work; Hazardous
Waste Level A; Ram Cutter; Boiler on Industrial Work & Anything
pertaining to, such as Expansion Joints, etc.; Demolition of
Stack 50' to 100'; Tunnel; Mucker, including Caisson & Coffor,
Horizontal & Underground

GROUP 6 - Demolition of Stack 100' to 150'

GROUP 7 - Miner, including Caisson & Coffor, Horizontal or
Underground, Mucking Machine Operator

GROUP 8 - Blasterman & Tender; Bellman & Lancer; Bottom Man in
Blast Furnace, Stack, Stove & Dust Catcher; Mud Man & Working
with Carbon Brick & Handling Bottom Block on Blast Furnace,
Stack, Stove & Dust Catcher

GROUP 9 - Gunnite Nozzleman & Gunnite Machine Operator - Grout

Nozzleman & Grout Machine Operator
GROUP 10 - Demolition of Stack over 150'

LABO1015A 05/01/2002

Rates Fringes

WAYNE COUNTY:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.30 | 4.40 |
| GROUP 2 | 19.60 | 4.40 |
| GROUP 3 | 19.90 | 4.40 |
| GROUP 4 | 19.90 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalman; Flagman;
Carpenter Tender; Finisher Tender; Concrete Handler; Utility
Construction; Guard Rail Erector; & Hazardous Waste Removal
(Level D) Personal Protective Equipment (PPE)

GROUP 2 - Bottom Man; Scaffold Builder; Tunnel; Pipe Layer; Air
& Power Driven Tool; Burner on Demolition Work; Swinging
Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man
& Dynamite Blaster; Creosote Worker; Form Setter; Plasterer
Tender; Hod Carrier; All Confined Space Work; Furnaces; Pickle
Tubs; Acid Pits & Hazardous Waste Removal (Level C) Personal
Protective Equipment (PPE)

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender;
Skid, Steer Loader; & Hazardous Waste Removal (Level B)
Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A)
Personal Protective Equipment (PPE)

LABO1149B 07/01/2002

Rates Fringes

BELMONT COUNTY:

| | | |
|---------|-------|------|
| GROUP 1 | 16.77 | 8.00 |
| GROUP 2 | 17.07 | 8.00 |
| GROUP 3 | 17.42 | 8.00 |

LABORER CLASSIFICATIONS

GROUP 1 - Unskilled; Carpenter Tender; Flagperson; Demolition
Worker; Fire Watch; & Landscaper

GROUP 2 - Powderman on Concrete Pump Hose; Semi-skilled Laborer;
Scaffold Builder; Grade Checker; Signalperson; Tenders of:
Brickmasons, Plasterers, Cement Finishers & Stonemasons; Mortar
Mixer; Operators of: Jackhammers, Forklifts, Bobcats,
Vibrators, Tampers, Pavement Busters, Chipping & Peening
Hammers, Air Siphon & Air Pumps, Concrete Saws, Power Saws,
Chain Saws, Motorized Buggies, Post Hole Diggers, Lance and/or
Water Blasters & Batch House Scales; Riprap Finisher; Concrete
Specialist; Concrete Technician; Sheeter & Shorer; Asphalt
Raker; Persons Working with: Mastic Asphalt, Acid Brick, Acid &
Creosote; Nozzleman for Gunnite or Sandblasting; Demolition
Worker; Ride or Walk Roller Tamper; Deep Ditch Vertical &
Manholes 6 ft. or more; Scaffolding Work over 50 ft. (inside or
out); Asbestos Abatement; Hazardous Waste Worker; &
Environmental Worker

GROUP 3 - Blacksmith; Powderman; Air Track Operator; Pipe Layer;
& Burner

LABO1216A 06/01/2002

Rates Fringes

ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 21.22 | 4.00 |
| GROUP 2 | 21.42 | 4.00 |
| GROUP 3 | 22.72 | 4.00 |

LABORER CLASSIFICATIONS

GROUP 1 - Asbestos Handler; Building & Construction; Carpenter Tender; Concrete Handler; Finisher Tender; Flagperson; Guard Rail Erector; Hazardous Waste (Levels C & D); Signalperson; & Utility Construction Laborer

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on Demolition Work; Caisson Worker; Cofferdam Worker; Creosote Worker; Form Setter; Guniting Operator; Hazardous Waste (Levels A & B); Hod Carrier; Mucker; Pipe Layer; Plasterer Tender; Powder Man & Dynamite Blaster; Swinging Scaffold; & Tunnel Laborer

GROUP 3 - Mason Tender; Mortar Mixer; Scaffold Builder; & Stonemason Tender

LABO1410A 06/01/2002

Rates Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 12.93 | 4.60 |
| GROUP 2 | 15.93 | 4.60 |
| GROUP 3 | 18.45 | 4.60 |
| GROUP 4 | 20.15 | 4.60 |
| GROUP 5 | 20.65 | 4.60 |

LABORER CLASSIFICATIONS

GROUP 1 - Signalman

GROUP 2 - Yardman-Landscaping; Sewer Jet; Unloading of Furniture and Fixtures; Final Clean-Up

GROUP 3 - Building & Construction; Railroad; Asbestos & Hazardous Waste (Levels A, B, C & D); Concrete Crew; Form Setter; Pipelayer; Bottom Man; Burner (Cutting Torch); All Machine & Power Driven Tools; Sandblaster

GROUP 4 - Mason Tender for Bricklayers; Flexicore; Firebrick Tender (Blast Furnaces, Soaking Pits, Stoves & Stacks); Plasterer Tenders

GROUP 5 - Tender Operator

LABO1410B 05/01/2002

Rates Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

LABORERS:

| | | |
|--|-------|------|
| Tender for: Bricklayers, Mason & Flexicore | 20.15 | 4.40 |
| Tender Operator | 20.65 | 4.40 |

PAIN0006U 06/01/2002

Rates Fringes

ERIE, HANCOCK, HURON, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore,

Erie, Fishback, Gem Beach & Genoa), SANDUSKY, SENECA & WYANDOT
COUNTIES:

PAINTERS:

| | | |
|------------------|-------|------|
| Brush & Roller | 20.22 | 6.38 |
| Paperhanging | 20.47 | 6.38 |
| Structural Steel | 20.67 | 6.38 |
| Drywall | 20.72 | 6.38 |

WINTER REPAINT: Between December 1 to March 31 - 90% JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE
CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and
horizontal cable.

While operating sprayguns, sandblasting, cobblasting, high
pressure waterblasting (4000 psi), and for automatic taping
and finishing tools for drywall.

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE
CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy
that is demed hazardous, lead abatement, or for work or material
where special precautions beyond normal work duties must be
taken.

For working on stacks, tanks, and towers over 40 feet in height.

PAIN0006W 07/01/2001

Rates Fringes

OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center,
Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback,
Gem Beach & Genova) & WOOD COUNTIES:

PAINTERS:

NEW COMMERCIAL BUILDING WORK:

| | | |
|---------|-------|------|
| GROUP 1 | 22.09 | 7.20 |
| GROUP 2 | 22.34 | 7.20 |
| GROUP 3 | 22.59 | 7.20 |
| GROUP 4 | 22.84 | 7.20 |
| GROUP 5 | 22.79 | 7.20 |
| GROUP 6 | 23.09 | 7.20 |

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Paperhanger; Drywall Taper & Finisher; Spray
& Sandblasting Pot Tender

GROUP 2 - Refineries; & All Surfaces 30 ft. or over where
material is applied to or labor performed on above ground
level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Application of Catalized Epoxies and Waterbased
Epoxies of 2 or more component materials; Lead Paint
Abatement

GROUP 5 - All Methods of Spray, Paint or any Material Applied
with a Pressure Device

GROUP 6 - Solvent Based Material; Sand and Abrasive Blasting

PAIN0012I 06/09/2001

Rates Fringes

BUTLER COUNTY:

PAINTERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.66 | 7.09 |
| GROUP 2 | 19.16 | 7.09 |
| GROUP 3 | 19.41 | 7.09 |
| GROUP 4 | 19.66 | 7.09 |

PAINTERS CLASSIFICATIONS

GROUP 1: Brush & Roller; Paperhanger; & Drywall Taping

GROUP 2: Spray

GROUP 3: Sandblasting; & Waterblasting

GROUP 4: Lead Abatement

PAIN0012L 06/09/2001

| | Rates | Fringes |
|---|-------|---------|
| BROWN, CLERMONT, CLINTON & WARREN COUNTIES: | | |
| PAINTERS: | | |

| | | |
|---------|-------|------|
| GROUP 1 | 21.05 | 4.70 |
| GROUP 2 | 21.55 | 4.70 |
| GROUP 3 | 21.80 | 4.70 |
| GROUP 4 | 22.05 | 4.70 |
| GROUP 5 | 22.80 | 4.70 |

PAINTER CLASSIFICATIONS

GROUP 1: Brush; Roller; Paperhanger; & Drywall Taping

GROUP 2: Spray

GROUP 3: Sandblasting; Waterblasting; & Hopper Tender

GROUP 4: Hazardous Work; High Work; Steeplejack; & Lead
Abatement ProjectsGROUP 5: Sandblasting, Hopper Tender & Waterblasting Under
Hazardous Conditions-----
PAIN0012P 11/01/2002

| | Rates | Fringes |
|---|-------|---------|
| DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY & ROSS COUNTIES: | | |
| PAINTERS: | | |

Brush; Paperhanger; Roller;

& Wall Washing 22.52 6.02

Drywall Sander 22.27 6.02

Structural Steel & Swing Stage 22.82 6.02

Drywall Taper & Finisher 22.92 6.02

Spray 23.02 6.02

Sandblasting; Steamcleaning;

Waterblasting (3500 PSI or Over)

& Hazardous Work 23.22 6.02

PAIN0012V 05/01/2002

| | Rates | Fringes |
|--|-------|---------|
| GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| PAINTERS: | | |

GROUP 1 - Brush; Roller 20.34 5.33

GROUP 2 - Spackling & Drywall

Finishing; Vinyl - Paper

Wallcovering 20.69 5.33

GROUP 3 - Swing & Scaffold;

Structural Steel; High Tension

Electrical Equipment; Hot Pipes 20.75 5.33

GROUP 4 - Spray; Sandblasting;

Steam Cleaning; & Lead Paint
 Abatement 21.09 5.33
 GROUP 5 - Steeplejack Work - Church
 Steeples, Smoke Stacks & Hazardous
 Work 21.29 5.33
 GROUP 6 - Coal Tar 21.84 5.33

 PAIN0093A 06/01/2001

Rates Fringes

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON COUNTIES:

PAINTERS (All Work, except Light Commercial Work):

Brush; Roller; & Taper 23.18 4.63

Spray; Sandblasting; & Power

Tool Under 30' Preparation

Confined Areas; & Toxic Material

Handlers 24.95 4.63

 PAIN0093C 06/01/2001

Rates Fringes

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON COUNTIES:

PAINTERS:

Separate contracts let which are

not in excess of \$5,000,000.00

total project construction costs 18.52 4.63

 PAIN0356A 07/01/1999

Rates Fringes

LICKING, MUSKINGUM & PERRY COUNTIES:

PAINTERS:

Brush; Roller; Hopper Tender; &

Washing 16.00 3.27

Spray; Steamcleaning; Taping;

Paperhanging & Wallcovering

(furnishing tools) 16.50 3.27

Sandblasting; Waterblasting 17.00 3.27

Lead Abatement 18.00 3.27

Sandblasting, Hopper Tender &

Waterblasting Under Hazardous

Conditions 19.00 3.27

High Work 19.25 3.27

 PAIN0372A 02/01/2001

Rates Fringes

DELAWARE, FAIRFIELD, FAYETTE (West of State Rte. #41), FRANKLIN,

HOCKING, JACKSON, LICKING, MADISON, MORGAN, MUSKINGUM, PERRY,

PICKAWAY, PIKE, ROSS & VINTON COUNTIES:

GLAZIERS 20.92 5.02+a

FOOTNOTE:

a. 1 Paid Holiday: Labor Day

 PAIN0387A 11/25/2001

Rates Fringes

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAYETTE (Eastern part),

GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN COUNTIES:

GLAZIERS 21.00 4.95

 PAIN0406A 06/01/1999

Rates Fringes

ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND COUNTIES:

PAINTERS:

GROUP 1 - Drywall, Paperhanger,
 Wall Coverer & Pot Tender when
 tending 2 or more Sprayers or
 Metalizing Workers 18.55 2.00

GROUP 2 - Brush; Cleaner; Roller;
 & Washer 19.00 2.00

GROUP 3 - Structural Steel; &
 Hazardous Materials, including
 Epoxy and/or other materials;
 Dirty Factory Work; & Lead
 Abatement 19.50 2.00

GROUP 4 - Riggers on Work more than
 30 ft. above base level, includes
 base level & up work; Spray; &
 Electrostatic Applications 19.75 2.00

GROUP 5 - Blasting: Sand, Grit,
 Shot, Water; & Metalizing Workers 20.15 2.00

SWING STAGE, WINDOW JACKS, BOATSWAIN CHAIR, SPIDER, CHERRY PICKER
 AND OTHER TYPES OF LIFTS - \$.25 PREMIUM

 PAIN0438A 07/01/2001

Rates Fringes

BELMONT, HARRISON & JEFFERSON COUNTIES:

PAINTERS:

GROUP 1 20.24 5.34

GROUP 2 20.90 5.34

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Roll; Drywall Taping; & Spray

GROUP 2 - Special Coatings (Anything thinned by MEK, alcohol,
 hot or experimental thinners, coal tar epoxies & any
 experimental paints); Waterblast; Sandblast; Power Tools; Lead
 Abatement; Vinyl Hanging; & Bazooga & Banjo Tools for Taping

 PAIN0555A 06/01/2000

Rates Fringes

ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO COUNTIES:

PAINTERS:

GROUP 1 18.33 7.54

GROUP 2 19.33 7.54

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Roller; Taping; & Wallcovering

GROUP 2 - Floor Sanding; Power Tools; Sandblasting; Spray; Steam
 Cleaning; Pressure Washing; Lead Abatement; Hazardous Waste,
 Toxic Materials; Epoxy & Two Component Materials

 PAIN0603A 06/01/2001

Rates Fringes

COSHOCTON, HOLMES, TUSCARAWAS & WAYNE COUNTIES:

PAINTERS:

Brush & Roller 17.20 7.39

| | | |
|--|-------|------|
| Paperhanger | 17.30 | 7.39 |
| Spray | 17.70 | 7.39 |
| Drywall Taper | 17.60 | 7.39 |
| Drywall Taper With Machines | 17.95 | 7.39 |
| Swing Stage, Ladder Jack & Window Jack - \$.30 Premium | | |

PAIN0639A 05/01/2002

| | Rates | Fringes |
|------------------------|-------|---------|
| SIGN PAINTER & ERECTOR | 17.12 | 4.27+ |
| a+b+c | | |

FOOTNOTES:

- a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day
 b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10 days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service - 20 days' paid vacation
 c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee attends funeral

PAIN0751H 07/01/2001

| | Rates | Fringes |
|---|-------|---------|
| BELMONT, HARRISON, JEFFERSON, & MONROE, COUNTIES: | | |
| GLAZIERS | 18.73 | 7.03 |

PAIN0751K 07/01/2001

| | Rates | Fringes |
|---------------------------------------|-------|---------|
| GUERNSEY, NOBLE & WASHINGTON COUNTIES | | |
| GLAZIERS | 14.49 | 6.00 |

PAIN0813D 06/01/2001

| | Rates | Fringes |
|----------------|-------|---------|
| VINTON COUNTY: | | |
| PAINTERS: | | |
| GROUP 1 | 20.30 | 7.00 |
| GROUP 2 | 21.65 | 7.00 |
| GROUP 3 | 20.85 | 7.00 |

PAINTER CLASSIFICATIONS

- GROUP 1 - Brush & Roller
 GROUP 2 - Spray; Sandblasting; Drywall Finishing & Texturing
 GROUP 3 - Wallcovering & Vinyl; Machine, Toolstand & Stilts

PAIN1162A 06/01/2001

| | Rates | Fringes |
|---|-------|---------|
| COSHOCTON, HOLMES, TUSCARAWAS & WAYNE COUNTIES: | | |
| GLAZIERS | 20.03 | 6.06 |

PAIN1195D 11/05/2002

| | Rates | Fringes |
|----------------|-------|---------|
| SCIOTO COUNTY: | | |
| GLAZIERS | 23.11 | 3.85 |

PAIN1920A 05/01/1998

Rates Fringes

ASHLAND, CRAWFORD, HURON (S. part), KNOX, RICHLAND &
WYANDOT (E. part) COUNTIES:

GLAZIERS:

| | | |
|------------------------|-------|-----|
| Outside Replacement | 12.08 | .51 |
| Outside All Other Work | 12.58 | .51 |

PAIN6000E 04/01/2000

Rates Fringes

ALLEN & AUGLAIZE COUNTIES:

PAINTERS:

| | | |
|---------------------------------|-------|------|
| Brush; Roller; & Drywall Taping | 17.20 | 5.30 |
| Paperhanger | 17.45 | 5.30 |

Spray; Sandblasting; Pressure

Cleaning & Drywall (Using stilts

& automatic tools) 17.95 5.30

Swing Stage, Chair, Safety Belts, Spiders & Cherry Pickers -

\$.25 premium

All Surfaces 40 ft. or over where material is applied to or
labor performed on, above ground level (exterior), floor level
(interior) - \$.50 premiumApplying Coal Tar Products - \$1.00 premium

PAIN6000H 05/01/2001

Rates Fringes

ERIE (Excluding NW tip to Route #4), & HURON (NE part) COUNTIES:

GLAZIERS 24.24 8.02

PAIN6000J 09/01/2001

Rates Fringes

ALLEN, AUGLAIZE, HANCOCK & WYANDOT (W. part) COUNTIES

GLAZIERS 14.85 3.50

PAIN6000K 07/01/2001

Rates Fringes

ERIE (NW tip of county to Route #4), OTTAWA, SANDUSKY, SENECA,
& WOOD COUNTIESGLAZIERS 23.53 5.79

PLAS0001A 06/22/1999

Rates Fringes

BROWN, BUTLER, CLERMONT, HIGHLAND & WARREN COUNTIES:

PLASTERERS:

Pointing & Taping of Drywall

Surfaces, Acoustical Finishes on

Concrete & Drywall Surfaces 18.40 2.60

All Other Work 21.25 2.60

PLAS0001P 06/01/1998

Rates Fringes

ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN,
HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding Tymochtee,
Crawford, Ridge & Richland Townships) COUNTIES:

PLASTERERS:

| | | |
|-------------------------------|-------|------|
| On Exterior Insulation Finish | | |
| Systems | 14.60 | 4.91 |
| All Other Work | 17.83 | 4.87 |

PLAS0001Q 06/01/1998

| | | |
|--|-------|---------|
| | Rates | Fringes |
| ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding the townships of Tymochtee, Crawford, Ridge & Richland) COUNTIES: | | |
| CEMENT MASONS | 18.03 | 5.00 |

PLAS0001R 06/01/1998

| | | |
|--------------------------------------|-------|---------|
| | Rates | Fringes |
| MONROE, NOBLE & WASHINGTON COUNTIES: | | |
| CEMENT MASONS | 17.41 | 4.93 |

PLAS0001S 06/01/1998

| | | |
|--------------------------------------|-------|---------|
| | Rates | Fringes |
| MONROE, NOBLE & WASHINGTON COUNTIES: | | |
| PLASTERERS | 17.83 | 4.87 |

PLAS0039A 07/01/2002

| | | |
|---|-------|---------|
| | Rates | Fringes |
| BELMONT, HARRISON & JEFFERSON COUNTIES: | | |
| CEMENT MASONS | 20.73 | 7.13 |

PLAS0039B 07/01/2002

| | | |
|---|-------|---------|
| | Rates | Fringes |
| BELMONT, HARRISON & JEFFERSON COUNTIES: | | |
| PLASTERERS | 21.13 | 6.55 |

PLAS0132B 06/01/1999

| | | |
|---|-------|---------|
| | Rates | Fringes |
| CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| CEMENT MASONS | 19.18 | 6.30 |

PLAS0132D 06/01/1999

| | | |
|---|-------|---------|
| | Rates | Fringes |
| CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| PLASTERERS | 20.25 | 6.20 |

PLAS0132F 06/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
| BROWN, BUTLER, CLERMONT, HIGHLAND & WARREN COUNTIES: | | |
| CEMENT MASONS | 19.80 | 5.50 |

PLAS0132J 06/01/2000

| | | |
|---|-------|---------|
| | Rates | Fringes |
| ADAMS, JACKSON, PIKE & SCIOTO COUNTIES: | | |
| CEMENT MASONS; PLASTERERS | 23.98 | 6.97 |

PLAS0886A 07/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

HANCOCK & WOOD COUNTIES:

| | | |
|---------------|-------|------|
| CEMENT MASONS | 25.38 | 8.77 |
|---------------|-------|------|

PLAS0886C 07/01/1999

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN & AUGLAIZE COUNTIES:

| | | |
|---------------|-------|------|
| CEMENT MASONS | 20.35 | 7.00 |
|---------------|-------|------|

PLAS0886D 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN, AUGLAIZE, HANCOCK & WOOD (Excluding Perry & Bloom Townships) COUNTIES:

| | | |
|------------|-------|------|
| PLASTERERS | 25.56 | 7.22 |
|------------|-------|------|

| | | |
|------------|-------|------|
| DRYWALLERS | 24.20 | 7.22 |
|------------|-------|------|

PLUM0042A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, MORROW, RICHLAND & WYANDOT COUNTIES:

| | | |
|---------------------------------------|-------|-------|
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 23.70 | 11.50 |
|---------------------------------------|-------|-------|

PLUM0050A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES:

| | | |
|---------------------------------------|-------|-------|
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 28.10 | 12.20 |
|---------------------------------------|-------|-------|

PLUM0083A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT & MONROE (North of Rte. #78) COUNTIES:

| | | |
|-------------------------|-------|-------|
| PLUMBERS & STEAMFITTERS | 20.06 | 15.30 |
|-------------------------|-------|-------|

PLUM0094A 11/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

WAYNE COUNTY:

| | | |
|------------------------|-------|-------|
| PIPEFITTERS & PLUMBERS | 23.45 | 10.32 |
|------------------------|-------|-------|

PLUM0162A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

CLINTON, FAYETTE, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

| | | |
|-------------------------------------|-------|------|
| PIPEFITTERS; PLUMBERS; STEAMFITTERS | 25.15 | 9.27 |
|-------------------------------------|-------|------|

PLUM0168A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

MONROE (South of Rte. #78), MORGAN (South of Rte. #78) & WASHINGTON COUNTIES:

| | | |
|------------------------|-------|-------|
| PIPEFITTERS & PLUMBERS | 26.08 | 10.54 |
|------------------------|-------|-------|

PLUM0189A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON, PERRY, PICKAWAY & ROSS COUNTIES:

| | | |
|---------------------------------------|-------|------|
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 26.50 | 9.98 |
|---------------------------------------|-------|------|

PLUM0392A 06/01/2001

| | Rates | Fringes |
|--|-------|---------|
| BROWN, BUTLER, CLERMONT & WARREN COUNTIES: | | |
| PIPEFITTERS & PLUMBERS | 25.50 | 7.53 |

PLUM0495A 06/01/2001

| | Rates | Fringes |
|---|-------|---------|
| SHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South to State Rte. #78 & from McConnelsville west on State Rte. #37 to the Perry County Line), MUSKINGUM, NOBLE & TUSCARAWAS COUNTIES: | | |
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 22.73 | 9.72 |

PLUM0577A 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| ADAMS, HIGHLAND, JACKSON, PIKE, SCIOTO & VINTON COUNTIES: | | |
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS: | | |
| Manufacturing Plants, Testing Facilities, Enrichment Plants, Compressor Stations, Power Generating Plants, Coke Plants, Co-Generation Plants, Chemical Plants, Incinerators & Steel Mills | | |
| | 25.28 | 11.14 |
| All Other Work | 22.78 | 11.14 |

PLUM0776A 07/01/2002

| | Rates | Fringes |
|---------------------------------------|-------|---------|
| ALLEN & AUGLAIZE COUNTIES: | | |
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 23.94 | 10.80 |

ROOF0042A 08/01/2002

| | Rates | Fringes |
|--|-------|---------|
| BROWN, BUTLER, CLERMONT & WARREN COUNTIES: | | |
| ROOFERS: | | |
| Roofers | 24.15 | 6.04 |
| Pitch | 25.15 | 6.04 |

ROOF0044A 05/01/2002

| | Rates | Fringes |
|-----------------------------------|-------|---------|
| ERIE, OTTAWA & SANDUSKY COUNTIES: | | |
| ROOFERS | 24.23 | 10.10 |

ROOF0075A 05/01/1999

| | Rates | Fringes |
|---|-------|---------|
| CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| ROOFERS: | | |
| Composition, Damp & Waterproof | 19.35 | 5.42 |
| Slate, Tile & Asbestos | 19.57 | 5.42 |

ROOF0086A 09/01/2001

| | Rates | Fringes |
|--|-------|---------|
| AUGLAIZE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, KNOX, | | |

LICKING, MADISON, MORROW, PERRY, PICKAWAY, ROSS & WYANDOT
COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 20.56 | 7.40 |
|---------|-------|------|

ROOF0088A 06/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, COSHOCTON, CRAWFORD, HOLMES, HURON, RICHLAND, SENECA,
TUSCARAWAS & WAYNE COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 19.95 | 6.96 |
|---------|-------|------|

ROOF0134A 07/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN, HANCOCK & WOOD COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 22.60 | 8.08 |
|---------|-------|------|

ROOF0185A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, JACKSON, PIKE, SCIOTO & VINTON COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 23.75 | 5.60 |
|---------|-------|------|

ROOF0188A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:

ROOFERS:

| | | |
|---------|-------|------|
| Roofers | 21.27 | 6.75 |
|---------|-------|------|

| | | |
|------------------------------|-------|------|
| Coal Tar Pitch Waterproofing | 21.52 | 6.75 |
|------------------------------|-------|------|

ROOF0242A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

GUERNSEY, MORGAN, MUSKINGUM, NOBLE & WASHINGTON COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 20.94 | 6.73 |
|---------|-------|------|

SFOH0669A 04/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER,
CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE,
FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK,
HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON,
KNOX, LICKING, MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN,
MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE,
PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS,
VINTON, WARREN, WASHINGTON, WAYNE, WOOD & WYANDOT COUNTIES:

| | | |
|-------------------|-------|------|
| SPRINKLER FITTERS | 28.75 | 7.55 |
|-------------------|-------|------|

SHEE0024A 06/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN, AUGLAIZE, BUTLER, CLINTON, GREENE, MIAMI, MONTGOMERY,
PREBLE, WARREN & WYANDOT COUNTIES:

| | | |
|---------------------|-------|------|
| SHEET METAL WORKERS | 23.41 | 9.91 |
|---------------------|-------|------|

SHEE0024B 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BROWN, CLERMONT & HIGHLAND COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.27 | 10.03 |
|---------------------|-------|-------|

SHEE0024G 06/01/2002

Rates Fringes

ADAMS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING,
JACKSON, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO & VINTON COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.12 | 11.49 |
|---------------------|-------|-------|

SHEE0033B 07/01/2002

Rates Fringes

HANCOCK, OTTAWA, SENECA & WOOD COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 26.40 | 11.36 |
|---------------------|-------|-------|

SHEE0033E 06/01/2002

Rates Fringes

ASHLAND, COSHOCTON, CRAWFORD, HOLMES, RICHLAND, TUSCARAWAS &
WAYNE COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.48 | 11.05 |
|---------------------|-------|-------|

SHEE0033G 06/01/2002

Rates Fringes

ERIE, HURON & SANDUSKY COUNTIES:

| | | |
|---------------------|-------|------|
| SHEET METAL WORKERS | 23.27 | 9.90 |
|---------------------|-------|------|

SHEE0033J 07/01/2002

Rates Fringes

WASHINGTON COUNTY:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.43 | 11.73 |
|---------------------|-------|-------|

SHEE0033M 07/01/2002

Rates Fringes

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 22.25 | 10.99 |
|---------------------|-------|-------|

TEAM0175B 06/01/1999

Rates Fringes

WASHINGTON COUNTY:

TRUCK DRIVERS:

| | | |
|---------|-------|-------|
| GROUP 1 | 18.05 | .08+a |
| GROUP 2 | 18.15 | .08+a |
| GROUP 3 | 18.30 | .08+a |
| GROUP 4 | 18.45 | .08+a |
| GROUP 5 | 18.70 | .08+a |
| GROUP 6 | 18.80 | .08+a |
| GROUP 7 | 18.95 | .08+a |

FOOTNOTE:

a. \$1,072.12 per month

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Pick-Up; & Panel

GROUP 2 - Flat Body Material (Straight Jobs); Dump (Up to 5 cu.
yds.); Greaser; Washer; Tireman; Mechanic; & Tank (Straight)

GROUP 3 - Dump (5 cu. yds. & over); Semi-Dump; Semi-Trailer
(whether Flat, Rack or Pole and hauled or pushed by truck or
tractor); Agitator or Mixed (Up to 5 cu. yds.); Tank (Semi); &
Monorail

GROUP 4 - Low Boy Trailer; Winch; Fork; Distributor (Front &

Back End); Truck Crane; Agitator or Mixer (5 cu. yds. & over);
 Hydraulic Tail Gate; & Farm Type Tractor
 GROUP 5 - Euclid; Dumpster; Turnarocker; Ross Carrier; Athey
 Wagon or Similar Equipment; A-Frame; Hydrolift; & Dual Purpose
 GROUP 6 - Mechanic
 GROUP 7 - Master Mechanic (3 or more employed)

 TEAM0377A 05/01/1997

| | Rates | Fringes |
|--|-------|---------|
| ADAMS, ASHLAND, BROWN, BUTLER, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK (From the southern boundary of the city of Findlay to the northern boundary of Hancock County), HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON (South to Short Creek), KNOX, LICKING, MADISON, MIAMI, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN, WAYNE, WOOD, & WYANDOT COUNTIES: | | |

TRUCK DRIVERS:

| | | |
|---------|-------|------|
| GROUP 1 | 16.29 | 6.22 |
| GROUP 2 | 16.34 | 6.22 |
| GROUP 3 | 16.39 | 6.22 |
| GROUP 4 | 16.49 | 6.22 |
| GROUP 5 | 16.76 | 6.22 |

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service; 4-Wheel
 Dump; & Oil Distributor
 GROUP 2 - Tandem
 GROUP 3 - Tractor-Trailer Combination: Fuel; Pole Trailer;
 Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man
 GROUP 4 - 5 Axles & Over; & Asphalt Oiler Spraybar Man When
 Operated From Cab
 GROUP 5 - Belly Dump; End Dump; Articulated Dump; Heavy Duty
 Equipment; Low Boy; & Truck Mechanic

 TEAM0697A 09/01/2000

| | Rates | Fringes |
|--|-------|---------|
| BELMONT, JEFFERSON (North to Short Creek) & MONROE COUNTIES: | | |

TRUCK DRIVERS:

| | | |
|---|-------|-------|
| GROUP 1 - Pickup | 18.75 | 6.275 |
| GROUP 2 - Flatbed Material; Dump & Semi-Dump | 18.80 | 6.275 |
| GROUP 3 - Tank (Straight & Semi) | 18.83 | 6.275 |
| GROUP 4 - Semi-Tractor Trailer | 18.85 | 6.275 |
| GROUP 5 - Pole Trailer | 18.95 | 6.275 |
| GROUP 6 - Agitator & Mixer (Up to 5 cu. yds.) | 19.03 | 6.275 |
| GROUP 7 - Euclid; Dumpster; Turnarocker; Ross Carrier; & Athey Wagon | 19.08 | 6.275 |
| GROUP 8 - Agitator & Mixer (Over 5 cu. yds.) | 19.11 | 6.275 |
| GROUP 9 - Lowboy Trailer; Winch; Fork & Distributor (Front & Back End); & Truck Crane | 19.38 | 6.275 |

| | | |
|---------------------|-------|-------|
| GROUP 10 - A-Frame | 19.45 | 6.275 |
| GROUP 11 - Mechanic | 19.48 | 6.275 |

TEAM0908A 05/18/1997

Rates Fringes

ALLEN, AUGLAIZE & HANCOCK (From the southern boundary of the city of Findlay to the southern boundary of Hancock County) COUNTIES:

TRUCK DRIVERS:

| | | |
|--------|-------|--------|
| Lowboy | 17.45 | 3.57+a |
|--------|-------|--------|

FOOTNOTE:

a. \$61.00 per week

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor

200 Constitution Avenue, N. W.

Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board

U. S. Department of Labor

200 Constitution Avenue, N. W.

Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION

GENERAL DECISION OH020029 01/10/03 OH29 (REV 11)

General Decision Number OH020029

Superseded General Decision No. OH010029

State: Ohio

Construction Type:

BUILDING

County(ies):

| | | |
|-----------|------------|------------|
| ADAMS | HANCOCK | OTTAWA |
| ALLEN | HARRISON | PERRY |
| ASHLAND | HIGHLAND | PICKAWAY |
| AUGLAIZE | HOCKING | PIKE |
| BELMONT | HOLMES | PREBLE |
| BROWN | HURON | RICHLAND |
| BUTLER | JACKSON | ROSS |
| CLERMONT | JEFFERSON | SANDUSKY |
| CLINTON | KNOX | SCIOTO |
| COSHOCTON | LICKING | SENECA |
| CRAWFORD | MADISON | TUSCARAWAS |
| DELAWARE | MIAMI | VINTON |
| ERIE | MONROE | WARREN |
| FAIRFIELD | MONTGOMERY | WASHINGTON |
| FAYETTE | MORGAN | WAYNE |
| FRANKLIN | MORROW | WOOD |
| GREENE | MUSKINGUM | WYANDOT |
| GUERNSEY | NOBLE | |

BUILDING CONSTRUCTION PROJECTS (Does not include single family homes and apartments up to and including four (4) stories)

Modification Number Publication Date

| | |
|---|------------|
| 0 | 03/01/2002 |
| 1 | 03/22/2002 |
| 2 | 04/05/2002 |
| 3 | 05/03/2002 |
| 4 | 06/21/2002 |
| 5 | 07/05/2002 |
| 6 | 08/09/2002 |
| 7 | 09/13/2002 |
| 8 | 10/04/2002 |
| 9 | 11/15/2002 |

10 12/13/2002
 11 01/10/2003

COUNTY(ies):

| | | |
|-----------|------------|------------|
| ADAMS | HANCOCK | OTTAWA |
| ALLEN | HARRISON | PERRY |
| ASHLAND | HIGHLAND | PICKAWAY |
| AUGLAIZE | HOCKING | PIKE |
| BELMONT | HOLMES | PREBLE |
| BROWN | HURON | RICHLAND |
| BUTLER | JACKSON | ROSS |
| CLERMONT | JEFFERSON | SANDUSKY |
| CLINTON | KNOX | SCIOTO |
| COSHOCTON | LICKING | SENECA |
| CRAWFORD | MADISON | TUSCARAWAS |
| DELAWARE | MIAMI | VINTON |
| ERIE | MONROE | WARREN |
| FAIRFIELD | MONTGOMERY | WASHINGTON |
| FAYETTE | MORGAN | WAYNE |
| FRANKLIN | MORROW | WOOD |
| GREENE | MUSKINGUM | WYANDOT |
| GUERNSEY | NOBLE | |

ASBE0002B 08/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, JEFFERSON & MONROE COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
 application of all insulating
 materials, protective coverings,
 coatings and finishes to all types
 of mechanical systems)

| | |
|-------|-------|
| 28.62 | 11.91 |
|-------|-------|

ASBE0003A 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ERIE (to Sandusky city limits) & HURON COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
 application of all insulating
 materials, protective coverings,
 coatings & finishings to all types
 of mechanical systems)

| | |
|-------|-------|
| 28.83 | 10.05 |
|-------|-------|

ASBE0003B 05/01/2002

Rates Fringes

ASHLAND, COSHOCTON, HARRISON, HOLMES, RICHLAND, TUSCARAWAS &
WAYNE COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings
coatings & finishings to all types
of mechanical systems) 22.71 10.05

ASBE0008A 07/01/2002

Rates Fringes

ADAMS, BROWN, BUTLER (Including Fairfield, Hanover, Liberty,
Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne
Townships), CLERMONT, HIGHLAND & WARREN (Including Deerfield,
Hamilton, Harlan, Salem, Union & Washington Townships) COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings & finishings to all types
of mechanical systems) 23.07 7.80

ASBE0041C 07/01/2002

Rates Fringes

ALLEN COUNTY:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings and finishings to all types
of mechanical systems) 23.64 8.51

ASBE0044A 07/01/2001

Rates Fringes

CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
NOBLE, PERRY, PICKAWAY, ROSS & VINTON COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,

| | | |
|--|-------|------|
| coatins & finisings to all types of mechanical systems) | 22.28 | 7.28 |
|--|-------|------|

* ASBE0045A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ERIE (City limits of Sandusky & Townships of Groton, Margaretta, Oxford & Perkins), HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES:

| | | |
|---|-------|-------|
| ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings & finisings to all types of mechanical systems) | 26.12 | 11.15 |
|---|-------|-------|

ASBE0079A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

AUGLAIZE, BUTLER (Lemon & Madison Townships), CLINTON, GREENE,

MIAMI, MONTGOMERY, PREBLE & WARREN (Clear Creek, Franklin, Massie, Turtle Creek & Wayne Townships) COUNTIES:

| | | |
|---|-------|------|
| ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings & finisings to all types of mechanical systems) | 22.25 | 6.44 |
|---|-------|------|

ASBE0080D 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

JACKSON, PIKE, SCIOTO & WASHINGTON COUNTIES:

| | | |
|--|-------|-------|
| INSULATORS/ASBESTOS WORKERS (Includes application of all insulating materials, protective coverings, coatings and finisings to all types of mechanical systems); & HAZAARDOUS MATERIAL HANDLERS | 24.73 | 10.00 |
|--|-------|-------|

ASBE0207I 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN COUNTY:

HAZARDOUS MATERIAL HANDLERS (Includes
preparation, wetting, stripping,
removal, scraping, vacuuming,
bagging & disposing of all
insulation materials, whether they
contain asbestos or not, from
mechanical systems) 16.60 5.70

ASBE0207N 07/01/2002

Rates Fringes

HAZARDOUS MATERIAL HANDLERS (Includes
preparation, wetting, stripping,
removal, scraping, vacuuming,
bagging & disposing of all
insulation materials, whether they
contain asbestos or not, from
mechanical systems):

ADAMS, BROWN, BUTLER (Townships of Fairfield, Hanover, Liberty,
Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union &
Wayne), CLERMONT, HIGHLAND & WARREN (Townships of Deerfield,
Hamilton, Harlan, Salem, Union & Washington) COUNTIES
17.50 6.25

AUGLAIZE, BUTLER (Excluding Townships of Fairfield, Hanover,
Liberty, Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union
& Wayne), CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN
(Townships of Clear Creek, Franklin, Massie, Turtle Creek &

Wayne) COUNTIES

17.50 6.25

ASHLAND, COSHOCTON, ERIE (Post Offices & Townships of: Berlin,
Berlin Heights, Birmingham, Florence, Huron, Milan, Shinrock &
Vermilion), HARRISON & HURON COUNTIES
17.50 6.25

CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
NOBLE, PERRY, PICKAWAY, ROSS & VINTON COUNTIES
17.50 6.25

ERIE (Portion covered by the city limits of Sandusky, Ohio & by
the Townships of Groton, Margaretta, Oxford & Perkins), HANCOCK,

OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES

20.05 5.45

HOLMES, RICHLAND, TUSCARAWAS & WAYNE COUNTIES

14.45 3.60

BOIL0085A 07/15/2002

Rates Fringes

ALLEN, ASHLAND, AUGLAIZE, CRAWFORD, DELAWARE, ERIE, HANCOCK,
HURON, KNOX, MORROW, OTTAWA, RICHLAND, SANDUSKY, SENECA, WOOD &
WYANDOT COUNTIES:BOILERMAKERS 26.50 11.70

* BOIL0105A 09/30/2002

Rates Fringes

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAIRFIELD, FAYETTE,
FRANKLIN, GREENE, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LICKING,
MADISON, MIAMI, MONTGOMERY, MORGAN, MUSKINGUM, NOBLE, PERRY,
PICKAWAY, PIKE, PREBLE, ROSS, SCIOTO, VINTON & WARREN COUNTIES:BOILERMAKERS 28.30 12.15

* BOIL0154B 01/01/2003

Rates Fringes

JEFFERSON COUNTY:

BOILERMAKERS 28.27 13.35

* BOIL0667B 10/01/2002

Rates Fringes

BELMONT, MONROE & WASHINGTON COUNTIES:

BOILERMAKERS 27.30 12.79

* BOIL0744A 01/01/2003

Rates Fringes

COSHOCOTON, HARRISON, HOLMES, TUSCARAWAS & WAYNE COUNTIES:

BOILERMAKERS 28.10 12.86

* BROH0003A 07/01/2002

| | Rates | Fringes |
|--|-------|---------|
| WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids) | | |

| | | |
|---------------------------|-------|------|
| BRICKLAYERS & STONEMASONS | 25.20 | 8.70 |
|---------------------------|-------|------|

BROH0003D 07/01/1998

| | Rates | Fringes |
|--|-------|---------|
| WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy, Freedom, Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty, Henry, Washington, Weston, Milton, Jackson & Grand Rapids) | | |

| | | |
|---|-------|------|
| MARBLE SETTERS; TERRAZZO WORKERS; & TILE SETTERS | 21.91 | 4.92 |
| FINISHERS | 18.88 | 3.85 |

BROH0005E 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| ASHLAND, ERIE, HURON & RICHLAND COUNTIES: | | |

| | | |
|---|-------|------|
| MARBLE SETTERS' FINISHERS; TILE SETTERS' FINISHERS | 22.89 | 7.10 |
| TERRAZZO WORKERS' FINISHERS | 22.92 | 7.10 |

BROH0006A 05/01/2002

| | Rates | Fringes |
|--------------------|-------|---------|
| TUSCARAWAS COUNTY: | | |

| | | |
|---|-------|------|
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS | 22.43 | 8.05 |
|---|-------|------|

BROH0006B 05/01/2002

| | Rates | Fringes |
|--------------------|-------|---------|
| TUSCARAWAS COUNTY: | | |

| | | |
|---|-------|------|
| MARBLE SETTERS, TERRAZZO WORKERS, TERRAZZO GRINDERS & TILE SETTERS | 20.30 | 6.45 |
| FINISHERS | 17.90 | 6.45 |

 BROH0006D 05/01/2002

Rates Fringes
 TUSCARAWAS COUNTY:

| | | |
|---------------------------|-------|------|
| CEMENT MASONS; PLASTERERS | 22.43 | 8.05 |
|---------------------------|-------|------|

BROH0007A 06/01/2002

Rates Fringes
 WAYNE COUNTY:

| | | |
|-------------|-------|------|
| BRICKLAYERS | 25.77 | 7.73 |
|-------------|-------|------|

BROH0007D 06/01/2002

Rates Fringes
 WAYNE COUNTY (Milton & Chippewa Townships):

| | | |
|---|-------|------|
| MARBLE SETTERS' FINISHERS; TERRAZZO WORKERS' FINISHERS; & TILE SETTERS' FINISHERS | 20.90 | 5.48 |
|---|-------|------|

BROH0007F 06/01/2002

Rates Fringes
 WAYNE COUNTY (Milton & Chippewa Townships):

| | | |
|--|-------|------|
| MARBLE SETTERS; STONEMASONS; & TERRAZZO WORKERS | 24.50 | 5.48 |
| TILE SETTERS | 23.90 | 5.48 |

BROH0008F 06/01/1998

Rates Fringes
 COSHOCTON, HARRISON, HOLMES, JEFFERSON & WAYNE
 (Excluding Milton & Chippewa Townships) COUNTIES:

| | | |
|--|-------|------|
| MARBLE SETTERS' FINISHERS & TERRAZZO WORKERS' FINISHERS | 19.82 | 3.86 |
|--|-------|------|

COSHOCTON, HOLMES, JEFFERSON (Townships of Mt. Pleasant, Warren,
 Salineville & the Village of Dillonvale), & WAYNE (Excluding

Milton & Chippewa Townships) COUNTIES:

| | | |
|-------------------------|-------|------|
| TILE SETTERS' FINISHERS | 19.82 | 3.86 |
|-------------------------|-------|------|

BROH0009A 07/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, JEFFERSON (Warren & Mt. Pleasant Townships & the Village of Dillonvale) & MONROE COUNTIES:

| | | |
|---|-------|------|
| BRICKLAYERS & STONEMASONS | 22.20 | 6.08 |
| MARBLE SETTERS; TERRAZZO WORKERS; & TILE SETTERS | 21.17 | 4.98 |

BROH0010A 06/15/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

JEFFERSON COUNTY (Brush Creek & Saline Townships):

BRICKLAYERS; CAULKERS; CLEANERS;
CEMENT BLOCKLAYERS; MARBLE SETTERS;
POINTERS; STONEMASONS; TERRAZZO
WORKERS; & TILE SETTERS

| | | |
|--|-------|------|
| | 22.10 | 7.00 |
|--|-------|------|

| | | |
|--------------------------|-------|------|
| TILE SETTERS' FINISHERS: | 20.00 | 7.00 |
|--------------------------|-------|------|

BROH0014A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek, Saline & Salineville Townships & the Village of Dillonvale) COUNTIES:

| | | |
|--------------------------|-------|------|
| BRICKLAYERS; STONEMASONS | 21.13 | 9.05 |
| TILE SETTERS | 20.61 | 9.05 |
| TILE SETTERS' FINISHERS | 17.61 | 9.05 |

BROH0015A 06/01/1999

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock, Jackson, Jefferson & Elk Townships) & WASHINGTON COUNTIES:

BRICKLAYERS; BLOCKLAYERS; CAULKERS;
CLEANERS; MARBLE SETTERS; POINTERS;

STONEMASONS; TERRAZZO WORKERS; &
TILE SETTERS 21.55 4.98

BROH0018A 06/01/2002

Rates Fringes

BROWN, BUTLER, CLERMONT, PREBLE (Gasper, Dixon, Israel, Lanier,
Somers & Gratis Townships) & WARREN COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS 22.96 7.39
REFRACTORY 23.46 7.39

* BROH0018D 05/01/2002

Rates Fringes

BROWN, BUTLER, CLERMONT, PREBLE (Gasper, Dixon, Israel, Lanier,
Somers & Gratis Townships) & WARREN COUNTIES:

MARBLE SETTERS,
TERRAZZO WORKERS & TILE SETTERS 24.42 6.34

* BROH0018F 05/01/2002

Rates Fringes

ADAMS, BROWN, BUTLER, CLERMONT, FAYETTE, JACKSON, PIKE, ROSS,

SCIOTO, VINTON, WARREN & WASHINGTON COUNTIES:

MARBLE, TERRAZZO & TILE FINISHERS:

Finishers 19.98 6.34

Marble Sanders, Polishers, Waxers,
& Sawyers 20.05 6.34

Terrazzo Base Grinders (While
operating base grinding machine) 20.40 6.34

BROH0022A 11/01/2001

Rates Fringes

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson,
Monroe, Harrison, Twin, Jefferson & Washington Townships)
COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;

| | | |
|-----------------------|-------|------|
| POINTERS; STONEMASONS | 22.50 | 6.84 |
|-----------------------|-------|------|

BROH0022B 11/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson,
Monroe, Harrison, Twin, Jefferson & Washington Townships)
COUNTIES:

| | | |
|---|-------|------|
| MARBLE SETTERS; TERRAZZO WORKERS; & TILE SETTERS | 22.38 | 4.52 |
|---|-------|------|

BROH0022C 05/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

AUGLAIZE, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE
COUNTIES:

| | | |
|--------------|-------|------|
| FINISHERS | 20.64 | 1.50 |
| BASE MACHINE | 21.14 | 1.50 |

BROH0035A 01/01/1999

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN & AUGLAIZE COUNTIES:

| | | |
|--|-------|------|
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; STONEMASONS; & TILE SETTERS | 19.80 | 5.12 |
|--|-------|------|

BROH0039A 06/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS & SCIOTO COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;
MARBLE SETTERS; POINTERS;

| | | |
|--|-------|------|
| STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS | 22.50 | 8.55 |
|--|-------|------|

BROH0040A 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, CRAWFORD, HOLMES, MORROW, RICHLAND, WAYNE (Except Milton
& Chippewa Townships) & WYANDOT (Except Crawford, Ridge,

Richland & Tymochtee Townships) COUNTIES:

BRICKLAYERS; BLOCKLAYERS; CAULKERS;
CLEANERS; MARBLE SETTERS; POINTERS;
STONEMASONS; TERRAZZO WORKERS &
TILE SETTERS 22.95 8.25

BROH0040B 05/01/2002

Rates Fringes

HOLMES & WAYNE (Except Milton & Chippewa Townships) COUNTIES:

CEMENT MASONS & PLASTERERS 22.95 8.25

BROH0044A 01/01/1998

Rates Fringes

COSHOCTON, FAIRFIELD, KNOX & LICKING COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS 18.80 6.10

GUERNSEY, HOCKING, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo,
Seneca & Wayne Townships) & PERRY COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS 18.80 6.10

COSHOCTON COUNTY:

CEMENT MASONS & PLASTERERS 18.80 6.10

GUERNSEY COUNTY:

CEMENT MASONS & PLASTERERS 18.80 6.10

BROH0045A 06/01/2000

Rates Fringes

FAYETTE, JACKSON, PIKE, ROSS & VINTON COUNTIES:

BRICKLAYERS; CAULKERS; CEMENT MASONS;
CLEANERS; POINTERS; & STONEMASONS 21.25 7.10

BROH0046A 06/01/2002

Rates Fringes

ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry &

Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of

Sandusky:

BRICKLAYERS; CAULKERS; CEMENT BLOCK
LAYERS; CLEANERS; GUNNITE MASONS;
MARBLE SETTERS; POINTERS; REFRACTORY
MASONS; STONEMASONS; TERRAZZO
WORKERS; & TILE SETTERS 22.58 9.60

ERIE, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of Sandusky:

CEMENT MASONS & PLASTERERS 22.58 9.60

HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of Sandusky:

MARBLE SETTERS' FINISHERS; TERRAZZO
WORKERS' FINISHERS; & TILE
SETTERS' FINISHERS 18.93 9.60

BROH0055A 06/01/1999

Rates Fringes

DELAWARE, FRANKLIN, MADISON & PICKAWAY COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS 21.00 6.35
RUBBLE WORK 20.17 6.35

BROH0055B 06/01/1997

Rates Fringes

COSHOCTON, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY,
HOCKING, JACKSON, KNOX, LICKING, MADISON, MORGAN, MUSKINGUM,
NOBLE (Beaver, Buffalo, Seneca & Wayne Townships), PERRY,
PICKAWAY, PIKE, ROSS & VINTON COUNTIES:

MARBLE SETTERS 21.53 4.55
TERRAZZO WORKERS & TILE SETTERS 19.60 4.50

BROH0055D 06/01/1997

Rates Fringes

BELMONT, DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, HOCKING, KNOX,
LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE,
PERRY & PICKAWAY COUNTIES:

MARBLE, TERRAZZO & TILE FINISHERS 18.50 1.05

CARP0069A 05/01/2002

Rates Fringes

TUSCARAWAS & WAYNE COUNTIES:

CARPENTERS; SOFT FLOOR LAYERS 20.31 7.95

CARP0069G 05/01/2002

Rates Fringes

COSHOCTON, HOLMES, KNOX & MORROW COUNTIES:

CARPENTERS; SOFT FLOOR LAYERS 20.02 7.43

CARP0171A 05/01/2002

Rates Fringes

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:

CARPENTERS & SOFT FLOOR LAYERS: 20.12 9.02

CARP0200A 06/01/2000

Rates Fringes

DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON,
MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES:

CARPENTERS; & SOFT FLOOR LAYERS 20.51 5.68
PILEDRIVERMEN 21.19 5.68

CARP0248A 07/01/2001

Rates Fringes

WOOD COUNTY:

| | | |
|----------------------|-------|------|
| CARPENTERS & LATHERS | 23.90 | 9.95 |
|----------------------|-------|------|

CARP0248B 07/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HANCOCK & WOOD COUNTIES:

| | | |
|-------------------|-------|-------|
| SOFT FLOOR LAYERS | 22.21 | 10.95 |
|-------------------|-------|-------|

CARP0248C 07/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HANCOCK COUNTY:

| | | |
|----------------------|-------|------|
| CARPENTERS & LATHERS | 20.05 | 9.95 |
|----------------------|-------|------|

CARP0356A 06/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HOCKING, VINTON & WASHINGTON COUNTIES:

| | | |
|-------------------|-------|------|
| CARPENTERS | 20.31 | 8.03 |
| PILEDRIVERS | 20.61 | 8.03 |
| SOFT FLOOR LAYERS | 19.91 | 8.03 |

CARP0372A 07/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN & AUGLAIZE COUNTIES:

| | | |
|----------------------|-------|------|
| CARPENTERS & LATHERS | 20.05 | 8.95 |
|----------------------|-------|------|

CARP0437A 06/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, FAYETTE, HIGHLAND, JACKSON, PIKE, ROSS & SCIOTO COUNTIES:

| | | |
|--|-------|------|
| CARPENTERS; PILEDRIVERMEN & SOFT FLOOR LAYERS | 22.18 | 8.48 |
|--|-------|------|

CARP0735B 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, ERIE, HURON & RICHLAND COUNTIES:

CARPENTERS; SOFT FLOOR LAYERS 19.67 7.67

CARP1066A 09/01/1999

Rates Fringes

BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES:

MILLWRIGHTS 21.90 7.92

CARP1066B 09/01/1999

Rates Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

MILLWRIGHTS 21.90 9.02

CARP1241A 06/01/2000

Rates Fringes

DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON,
MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES:

MILLWRIGHTS 21.27 9.95

CARP1311B 06/01/2000

Rates Fringes

BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES:

CARPENTERS & PILEDRIVERMEN:

(Does not include Walls & Ceiling

Work) 21.35 4.77

CARP1311D 06/01/1998

Rates Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

CARPENTERS (Does not include Acoustic
Ceiling Installers, Drywall Hangers
or Metal Stud Framers) &

PILEDRIVERMEN 20.60 4.84

CARP1311G 07/01/2000

Rates Fringes

BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES:

CARPENTERS & LATHERS:

| | | |
|-----------------------------|-------|------|
| (Walls & Ceiling Work only) | 21.10 | 4.98 |
|-----------------------------|-------|------|

CARP1311O 08/15/1998

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

| | | |
|-------------------|-------|------|
| SOFT FLOOR LAYERS | 18.05 | 4.64 |
|-------------------|-------|------|

CARP1311P 06/01/1998

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

ACOUSTIC CEILING INSTALLERS; DRYWALL
HANGERS; LATHERS; & METAL STUD
FRAMERS

| | | |
|--|-------|------|
| | 19.80 | 4.64 |
|--|-------|------|

CARP1393A 07/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

CRAWFORD, HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES:

| | | |
|-----------------------------|-------|-------|
| MILLWRIGHTS & PILEDRIVERMEN | 21.61 | 11.07 |
|-----------------------------|-------|-------|

CARP1393D 07/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN, AUGLAIZE & WYANDOT COUNTIES:

| | | |
|-----------------------------|-------|------|
| MILLWRIGHTS & PILEDRIVERMEN | 20.68 | 9.32 |
|-----------------------------|-------|------|

CARP1519B 06/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PIKE, ROSS, SCIOTO & VINTON COUNTIES:

| | | |
|-------------|-------|-------|
| MILLWRIGHTS | 22.51 | 10.24 |
|-------------|-------|-------|

CARP1755C 06/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

WASHINGTON COUNTY:

| | | |
|-------------|-------|-------|
| MILLWRIGHTS | 24.39 | 10.16 |
|-------------|-------|-------|

CARP1871A 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, ERIE, HURON & RICHLAND COUNTIES:

| | | |
|-------------|-------|------|
| MILLWRIGHTS | 24.75 | 8.74 |
|-------------|-------|------|

CARP1871B 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, ERIE, HURON & RICHLAND COUNTIES:

| | | |
|---------------|-------|------|
| PILEDRIVERMEN | 24.75 | 8.74 |
|---------------|-------|------|

CARP1871C 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, HARRISON, & MONROE COUNTIES:

| | | |
|---------------|-------|------|
| PILEDRIVERMEN | 22.78 | 8.97 |
|---------------|-------|------|

CARP1871D 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

COSHOCOTON, HOLMES, KNOX & MORROW COUNTIES:

| | | |
|---------------|-------|------|
| PILEDRIVERMEN | 19.53 | 8.61 |
|---------------|-------|------|

CARP1871E 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:

| | | |
|-------------|-------|------|
| MILLWRIGHTS | 22.78 | 8.97 |
|-------------|-------|------|

CARP1871K 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

COSHOCOTON, HOLMES, KNOX & MORROW COUNTIES:

| | | |
|-------------|-------|------|
| MILLWRIGHTS | 19.53 | 8.61 |
|-------------|-------|------|

CARP1871L 05/01/2002

| | Rates | Fringes |
|------------------------------|-------|---------|
| TUSCARAWAS & WAYNE COUNTIES: | | |

| | | |
|-------------|-------|------|
| MILLWRIGHTS | 20.00 | 8.74 |
|-------------|-------|------|

CARP1871M 05/01/2002

| | Rates | Fringes |
|------------------------------|-------|---------|
| TUSCARAWAS & WAYNE COUNTIES: | | |

| | | |
|---------------|-------|------|
| PILEDRIVERMEN | 20.00 | 8.74 |
|---------------|-------|------|

CARP2235D 01/01/1999

| | Rates | Fringes |
|-------------------|-------|---------|
| JEFFERSON COUNTY: | | |

| | | |
|---------------|-------|------|
| PILEDRIVERMEN | 22.00 | 7.85 |
|---------------|-------|------|

CARP2239A 07/01/2001

| | Rates | Fringes |
|--|-------|---------|
| CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT COUNTIES: | | |

| | | |
|------------|-------|------|
| CARPENTERS | 20.82 | 9.95 |
|------------|-------|------|

ELEC0008A 05/28/2001

| | Rates | Fringes |
|--|-------|---------|
| HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES: | | |

ELECTRICIANS:

| | | |
|----------------|-------|------|
| Electricians | 28.98 | 9.30 |
| Cable Splicers | 30.43 | 9.37 |

ELEC0032A 12/01/2002

| | Rates | Fringes |
|--|-------|---------|
| ALLEN, AUGLAIZE & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Ridgeland, Ridge & Salem Townships) COUNTIES: | | |

| | | |
|--------------|-------|------|
| ELECTRICIANS | 24.87 | 8.18 |
|--------------|-------|------|

ELEC0032B 06/01/1998

Rates Fringes

ALLEN & WYANDOT (Crawford, Jackson, Marseilles, Mifflin,
Richland, Ridge & Salem Townships) COUNTIES:

LINE CONSTRUCTION:

| | | |
|------------------------|-------|--------|
| Lineman | 22.52 | 4.31+a |
| Equipment Operator | 20.27 | 4.12+a |
| Groundman Truck Driver | 14.43 | 3.63+a |

FOOTNOTE:

a. Half a day's Paid Holiday: The last 4 hours of the
workday prior to Christmas or New Year's Day

ELEC0071C 06/03/2002

Rates Fringes

ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE,
FRANKLIN, GUERNSEY, HIGHLAND, HOCKING, JACKSON (Coal, Jackson,
Liberty, Milton, Washington & Wellston Townships), KNOX,
LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE,
PERRY, PICKAWAY, PIKE (Beaver, Benton, Jackson, Mifflin, Pebble,
Peepee, Perry & Seal Townships), RICHLAND, ROSS, TUSCARAWAS
(Auburn, Bucks, Clay, Jefferson, Oxford, Perry, Salem, Rush,
Washington & York Townships), VINTON (Clinton, Eagle, Elk,
Harrison, Jackson, Richland & Swan Townships) & WASHINGTON
COUNTIES:

LINE CONSTRUCTION:

| | | |
|-------------------------|-------|------|
| Linemen; Cable Splicers | 26.00 | 7.26 |
| Equipment Operators | 23.40 | 6.78 |
| Groundmen | 16.90 | 5.58 |

ELEC0071D 01/01/2001

Rates Fringes

AUGLAIZE, CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0071M 01/01/2001

Rates Fringes

BELMONT, HARRISON, HOLMES, JEFFERSON & WAYNE COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0071N 01/01/2001

Rates Fringes

BROWN, BUTLER, CLERMONT & WARREN COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

* ELEC0082A 06/03/2002

Rates Fringes

CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (Wayne,
Clear Creek & Franklin Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 25.29 | 8.44 |
|--------------|-------|------|

ELEC0129F 09/01/2001

Rates Fringes

ERIE & HURON (Lyne, Ridgefield, Norwalk, Townsend, Wakeman,
Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich,
Greenfield, Fairfield, Fitchville & New London Townships)
COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 27.25 | 6.85 |
|--------------|-------|------|

ELEC0141C 06/01/2002

Rates Fringes

BELMONT COUNTY:

| | | |
|----------------|-------|-------|
| ELECTRICIANS | 24.58 | 10.70 |
| CABLE SPLICERS | 24.83 | 10.70 |

ELEC0212A 05/28/2001

| | Rates | Fringes |
|----------------------------|-------|---------|
| BROWN & CLERMONT COUNTIES: | | |

| | | |
|--------------|-------|------|
| ELECTRICIANS | 23.53 | 7.20 |
|--------------|-------|------|

ELEC0212B 11/01/2000

| | Rates | Fringes |
|----------------------------|-------|---------|
| BROWN & CLERMONT COUNTIES: | | |

SOUND COMMUNICATIONS:

| | | |
|--------------|-------|-------|
| Installer | 18.00 | 3.475 |
| Cable Puller | 9.00 | 2.64 |

ELEC0212D 01/18/1998

| | Rates | Fringes |
|----------------------------|-------|---------|
| BROWN & CLERMONT COUNTIES: | | |

ELECTRICAL SIGN & LUMINOUS

| | | |
|--------------------|-------|--------|
| BUILDING INSTALLER | 12.88 | 1.03+a |
|--------------------|-------|--------|

FOOTNOTE:

- a. 9 Paid Holidays: New Year's Day, Memorial Day, 4th of July, Labor Day, Thanksgiving Day, the Day after Thanksgiving, Christmas Eve, Christmas Day & New Year's Eve
-

ELEC0245A 09/02/2002

| | Rates | Fringes |
|--|-------|---------|
| HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES: | | |

LINE CONSTRUCTION:

| | | |
|------------------------|-------|--------|
| Cable Splicer | 32.67 | 9.14+a |
| Lineman | 28.41 | 8.27+a |
| Heli-arc Welding | 28.71 | 8.33+a |
| Technician | 27.56 | 8.11+a |
| Operator - Class 1 | 22.73 | 7.10+a |
| Operator - Class 2 | 19.89 | 6.53+a |
| Groundman/Truck Driver | 16.99 | 5.92+a |

FOOTNOTE:

a. 6 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day providing the employee has been on the payroll 25 calendar days prior to the holiday, and works the scheduled workdays preceding & following such holiday (except excused absences)

ELEC0246A 12/02/2001

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

HARRISON & JEFFERSON COUNTIES:

| | | |
|--------------|-------|---------|
| ELECTRICIANS | 25.25 | 13.00+a |
|--------------|-------|---------|

FOOTNOTE:

a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday

ELEC0306D 06/03/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton & Wayne Townships) COUNTY:

ELECTRICIANS:

| | | |
|---------------|-------|------|
| Electrician | 27.75 | 8.65 |
| Cable Splicer | 29.97 | 8.75 |

ELEC0317G 06/01/1998

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

ADAMS, JACKSON (Bloomfield, Franklin, Hamilton, Lick, Jefferson, Scioto & Madison Townships), PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships) COUNTIES:

LINE CONSTRUCTION:

| | | |
|---------------------|-------|------|
| Linemen | 21.42 | 8.40 |
| Cable Splicers | 23.66 | 8.48 |
| Equipment Operators | 17.14 | 8.25 |
| Groundmen | 13.92 | 8.14 |

ELEC0540A 06/03/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

HOLMES, TUSCARAWAS (North of Auburn Clay, Rush & York Townships),
& WAYNE (South of Baughman, Chester, Green & Wayne Townships)
COUNTIES:

| | | |
|--------------|-------|-------|
| ELECTRICIANS | 24.56 | 11.70 |
|--------------|-------|-------|

ELEC0540C 06/05/1997

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

TUSCARAWAS COUNTY (North of Auburn, Clay, Rush & York Townships)

LINE CONSTRUCTION:

| | | |
|---------------------------|-------|------|
| Lineman; & Cable Splicer | 21.86 | 9.01 |
| Line Equipment Operator | 19.02 | 8.69 |
| Groundman; & Truck Driver | 14.65 | 8.18 |

* ELEC0575A 01/01/2003

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin,
Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson,
Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek,
Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver,
Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp
Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS,
SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson,
Richland & Swan Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 26.80 | 7.33 |
|--------------|-------|------|

ELEC0575D 11/27/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PICKAWAY (Deer Creek,
Perry, Pickaway, Salt Creek & Wayne Townships), PIKE, ROSS,
SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson,
Richland & Swan Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|--------------|-------|------|
| Installer | 18.18 | 4.18 |
| Cable Puller | 9.46 | 3.91 |

ELEC0648A 09/02/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BUTLER & WARREN (Deerfield, Hamilton, Harlan, Massie, Salem,

Turtle Creek, Union & Washington Townships) COUNTIES:

ELECTRICIANS:

| | | |
|----------------|-------|------|
| Electricians | 23.53 | 6.63 |
| Cable Splicers | 24.03 | 6.65 |

ELEC0683A 06/01/2002

Rates Fringes

DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto, Walnut & Washington Townships) COUNTIES:

ELECTRICIANS:

| | | |
|----------------|-------|------|
| Electricians | 26.20 | 7.59 |
| Cable Splicers | 26.80 | 7.60 |

ELEC0683F 11/27/2000

Rates Fringes

DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto, Walnut & Washington Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|---------------|-------|------|
| Installers | 18.17 | 4.08 |
| Cable Pullers | 9.60 | 3.82 |

* ELEC0688A 12/30/2002

Rates Fringes

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley & Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard, Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown & Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 25.17 | 9.29 |
|--------------|-------|------|

ELEC0688B 11/27/2000

Rates Fringes

ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley & Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard,

Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown & Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|---------------|-------|------|
| Installers | 18.23 | 4.05 |
| Cable Pullers | 9.65 | 3.79 |

ELEC0867B 06/01/1998

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ERIE COUNTY:

LINE CONSTRUCTION:

| | | |
|---|-------|------|
| Lineman; Cable Splicer; & Equipment Operator | 20.75 | 4.09 |
|---|-------|------|

| | | |
|--|-------|------|
| Truck Driver (Winch) Groundman; & Groundman | 13.49 | 3.87 |
|--|-------|------|

ELEC0972A 06/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

MONROE, MORGAN, NOBLE, VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships) & WASHINGTON COUNTIES:

ELECTRICIANS:

| | | |
|----------------|-------|-------|
| Electricians | 23.30 | 12.61 |
| Cable Splicers | 23.55 | 12.62 |

ELEC1105A 06/04/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hilliar, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 22.12 | 6.56 |
|--------------|-------|------|

ELEC1105B 11/27/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hillard, Butler, Harrison, Pleasant & College

Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES:

SOUND AND COMMUNICATIONS:

| | | |
|--------------|-------|------|
| Installer | 17.95 | 4.40 |
| Cable Puller | 9.38 | 4.14 |

* ELEV0006C 01/01/2003

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

BELMONT & JEFFERSON COUNTIES:

| | | |
|--------------------|-------|-----------|
| ELEVATOR MECHANICS | 29.72 | 9.355+a+b |
|--------------------|-------|-----------|

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day After Thanksgiving; & Christmas Day.

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; Employer contributes 6% of regular hourly rate to vacation pay credit for employee who has worked in business less than 5 years.

ELEV0011A 06/22/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN COUNTIES:

| | | |
|--------------------|--------|-----------|
| ELEVATOR MECHANICS | 26.255 | 7.455+a+b |
|--------------------|--------|-----------|

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service.

ELEV0017A 07/01/2002

| | Rates | Fringes |
|------------------------|--------|-----------|
| ERIE & HURON COUNTIES: | | |
| ELEVATOR MECHANICS | 30.205 | 7.455+a+b |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day After Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0037A 07/16/2000

| | Rates | Fringes |
|--|-------|---------|
| ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, HOLMES, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS, TUSCARAWAS & VINTON COUNTIES: | | |

| | | |
|--------------------|--------|-----------|
| ELEVATOR MECHANICS | 25.335 | 7.195+a+b |
|--------------------|--------|-----------|

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0044A 07/31/2000

| | Rates | Fringes |
|--|-------|---------|
| ALLEN, AUGLAIZE, HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES: | | |

| | | |
|--------------------|--------|-----------|
| ELEVATOR MECHANICS | 28.385 | 7.195+a+b |
|--------------------|--------|-----------|

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 yrs.; 6% for less than 5 yrs.

ELEV0045A 07/09/2000

Rates Fringes

WAYNE COUNTY:

| | | |
|--------------------|--------|-----------|
| ELEVATOR MECHANICS | 27.305 | 7.195+a+b |
|--------------------|--------|-----------|

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0048C 09/28/1998

Rates Fringes

JACKSON, PIKE & SCIOTO COUNTIES:

| | | |
|--------------------|--------|----------|
| ELEVATOR MECHANICS | 22.795 | 6.12+a+b |
|--------------------|--------|----------|

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving Day; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service

ENGI0018A 05/01/2002

Rates Fringes

ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LICKING, MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS,

SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN,
WASHINGTON, WAYNE & WYANDOT COUNTIES:

POWER EQUIPMENT OPERATORS:

| | | |
|---------|-------|------|
| GROUP 1 | 26.09 | 7.10 |
| GROUP 2 | 25.84 | 7.10 |
| GROUP 3 | 25.59 | 7.10 |
| GROUP 4 | 25.34 | 7.10 |
| GROUP 5 | 25.22 | 7.10 |
| GROUP 6 | 24.18 | 7.10 |
| GROUP 7 | 23.00 | 7.10 |
| GROUP 8 | 17.84 | 7.10 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump with Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Forklift(rough terrain with winch/hoist) Gradall; Helicopter Operator & Helicopter Winch Operator (Hoisting Builders Materials); Hoe; Hoist (Two or More Drums); Horizontal Directional Drill; Hydraulic Gantry (Lift System); Laser Finishing Machine; Laser Screed and Like Equipment; Slab or Panel Jack; Locomotive; Maintenance Engineer (Mechanic); Mixer, Paving (Multiple Drum); Mobile Concrete Pump With Boom; Panelboard; Pile Driver; Power Shovel; Prentice Loader; Rail Tamper with automatic lifting & align device; Rotary Drill used on Caisson Work for Foundations & Substructure work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; C.M.I. Type Equipment; Concrete Grinder/Planer; Endloader; Hydro Milling Machine; Kolman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Pettibone-Rail Equipment; Power Grader; Power Scoop; Power Scraper; Push Cat; & Vermeer Type

Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader with or without Attachments; Concrete Pump without Booms & with 5" System; Highway Drillers with Integral Power; Hoist (One Drum); Boiler (15 lbs. pressure & over); ForkLift (except Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Gunit Machine; Pavement Breaker (Hydraulic or

Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor (Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All; Concrete Pump without Booms with 4" or Smaller System; Self-Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15 lbs. pressure); Directional Drill "Locator"; Masonry Fork Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Pump (Under 4" discharge); Signal Person; & Submersible Pump (Under 4" discharge)

ENGI0018B 05/01/2002

Rates Fringes
 ERIE & HURON COUNTIES:

POWER EQUIPMENT OPERATORS:

| | | |
|---|-------|------|
| Crane (Boom & Jib 300' & Over) | 29.17 | 7.06 |
| Crane (Boom & Jib 200' & Over, Up to 299'); Master Mechanic | 28.92 | 7.06 |
| GROUP 1 | 28.42 | 7.06 |
| GROUP 2 | 28.27 | 7.06 |
| GROUP 3 | 27.12 | 7.06 |
| GROUP 4 | 26.34 | 7.06 |
| GROUP 5 | 26.02 | 7.06 |
| GROUP 6 | 19.24 | 7.06 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - A-Frame; Boiler or Compressor Operator, Hydraulic Pump & Power Pacts Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Gradall; Helicopter Operator & Helicopter Winch Operator (When Hoisting Builders Materials); Hoe; Hoist (Two or More Drums); Lift Slab or Panel Jack Operator; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump, with Boom; Panelboard; Pile Driver; Power Shovel; Robotic Equipment; Operator/Mechanic; Rotary Drill used on Caisson Work for Foundations & Substructure Work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 2 - Asphalt Paver; Bulldozer; C.M.I. Type Equipment; End Loader; Kohlman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Power Grader; Power Scoop; Power Scraper; &

Push Cat; Horizontal Directional Drill Locator; Horizontal & Directional Drill Operator

GROUP 3 - Air Compressor (Pressurizing Shafts & Tunnels); Asphalt Roller; Fork Lift; Hoist (One Drum); House Elevator (Except Automatic Call Button-controlled); Man Lift; Mud Jack; Power Boiler (Over 15 lbs. Pressure); Pressure Grouting; Pump Operator (Installing Well Points or other type of Dewatering system); Trencher (24" & under); & Utility Operator

GROUP 4 - Compressor; Conveyor; Generator; Guniting Machine; Concrete Mixer (Capacity more than one bag); Concrete Mixer (One Bag capacity, Side Loader); Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; & Roller

GROUP 5 - Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap and Curing Machine; Cleaning Machine (decontamination included); Clefplane; Concrete Spreader Machine; Crusher; Deck Hand; Drum Fireman (In Asphalt Plant); Farm-type Tractor (Pulling attachment); Finishing Machine; Fork Lift (Masonry Work); Form Trencher High Pressure Pump (Over 1/2" discharge); Hydro Seeder; Pump (4" and Over discharge); Sub-mersible Pump (4" and Over discharge); Self-propelled Power Spreader; Self-propelled Sub-grader; Tire Repairman; Tractor (Pulling Sheeps Foot Roller or Grader); & Vibratory Compactor (With Integral Power)

GROUP 6 - Inboard & Outboard Motor Boat Launch; Light Plant Operator; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Power Boiler (Less than 15 lbs. Pressure); Pump (Under 4" discharge); Submersible Pump (Under 4" discharge); Signaller; Bob Cat-type and/or Skid Steer Loader; Grade Checker; & VAC/ALL

ENGI0018G 05/01/2002

Rates Fringes

WOOD COUNTY:

POWER EQUIPMENT OPERATORS:

| | | |
|---------|-------|------|
| GROUP 1 | 26.84 | 7.10 |
| GROUP 2 | 26.59 | 7.10 |
| GROUP 3 | 26.34 | 7.10 |
| GROUP 4 | 26.09 | 7.10 |
| GROUP 5 | 25.97 | 7.10 |
| GROUP 6 | 24.93 | 7.10 |
| GROUP 7 | 23.75 | 7.10 |
| GROUP 8 | 18.59 | 7.10 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump with

Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Forklift(rough terrain with winch/hoist) Gradall; Helicopter Operator (Hoisting Builders Materials); Helicopter Winch Operator (Hoisting Building Materials); Hoe; Hoist (Two or More Drums); Horizontal Directional Drill; Hydraulic Gantry (Lift System); Laser Finishing Machine; Laser Screed and Like Equipment; Lift Slab or Panel Jack; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump (With Boom); Panelboard; Pile Driver; Power Shovel; Prentice Loader; Concrete Pump with Boom; Rail Tamper with automatic lifting & align device; Rotary Drill used on Caisson Work for Foundations & Substructure work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; Power Grader; C.M.I. Type Equipment; Concrete Grinder/Planer; Endloader; Push Cats; Hydro Milling Machine; Kolman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Pettibone-Rail Equipment; Power Scoop; Power Scraper; & Vermeer Type Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drillers with Integral Power; Hoist (One Drum); Boiler (15 lbs. pressure & over); Concrete Pump without Booms with 5" System; ForkLift (except Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Gunit Machine; Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor

(Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All; Concrete Pump without Booms & With 4" System or Smaller; Self-

Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15 lbs. pressure); Directional Drill "Locator"; Masonry Fork Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Pump (Under 4" discharge); Signal Person; & Submersible Pump (Under 4" discharge)

IRON0017A 08/01/2002

Rates Fringes

ERIE (Eastern 2/3) & HURON (East of a line drawn from the north border through Monroeville & Willard) COUNTIES:

IRONWORKERS:

| | | |
|--------------------------------------|-------|-------|
| Ornamental; Reinforcing & Structural | 25.55 | 13.63 |
|--------------------------------------|-------|-------|

IRON0044A 06/01/2002

Rates Fringes

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES:

IRONWORKERS:

| | | |
|------------------------|-------|-------|
| Ornamental; Structural | 23.45 | 10.88 |
| Fence Erector | 21.11 | 10.88 |

IRON0055A 07/01/2002

Rates Fringes

CRAWFORD (Area between lines drawn from where Hwy #598 & #30 meet through North Liberty to the northern border & from said Hwy junction point due west to the border), ERIE (Western one-third), HANCOCK, HURON (West of a line drawn from the northern

border through Monroeville & Willard), OTTAWA, SANDUSKY,
SENECA, WOOD & WYANDOT (North of Rte. #30) COUNTIES:

IRONWORKERS:

| | | |
|---|-------|-------|
| Fence Erector | 18.43 | 12.02 |
| Pre-Engineered Metal Building | 19.43 | 12.41 |
| Furnaces & Kilns (Temperature units over 125 degrees Fahrenheit) | 25.15 | 12.41 |
| All Other Work | 24.15 | 12.41 |

* IRON0147B 06/01/2002

| | Rates | Fringes |
|-------------------------------|-------|---------|
| ALLEN COUNTY (Northern half): | | |

| | | |
|-------------|-------|-------|
| IRONWORKERS | 21.85 | 10.92 |
|-------------|-------|-------|

IRON0172A 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| COSHOCTON (West of a line beginning at the northwest county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, MADISON, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE, ROSS, VINTON & WYANDOT (South of Rte. #30) COUNTIES: | | |

| | | |
|-------------|-------|-------|
| IRONWORKERS | 23.90 | 10.41 |
|-------------|-------|-------|

IRON0290A 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrrtown & Woodsdale), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), MIAMI, MONTGOMERY, PREBLE & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the west county line) COUNTIES: | | |

IRONWORKERS

| | | |
|--------------------------|-------|-------|
| Within 25 mile radius of | | |
| L.U. #290 Office, Dayton | 23.10 | 10.75 |
| Beyond 25 mile radius of | | |
| L.U. #290 Office, Dayton | 23.25 | 10.75 |

IRON0372A 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES:

IRONWORKERS, Reinforcing:

| | | |
|-----------------------------------|-------|-------|
| Up to & including 30-mile radius | | |
| of Hamilton County Courthouse | 22.71 | 10.47 |
| Beyond 30-mile radius of Hamilton | | |
| County Courthouse | 22.96 | 10.47 |

IRON0549C 07/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM (Excluding portion west of a line starting at Adams Mill going

to Adamsville & going from Adamsville through Blue Rock to the south border) COUNTIES:

| | | |
|-------------|-------|-------|
| IRONWORKERS | 24.78 | 12.41 |
|-------------|-------|-------|

IRON0550A 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ASHLAND, COSHOCTON (E. of a line beginning at NW Co. line going through Walhonding & Tunnel Hill to the South Co. line), HOLMES, HURON (S. of Old Route #224), RICHLAND, TUSCARAWAS & WAYNE COUNTIES:

IRONWORKERS:

| | | |
|----------------------------|-------|-------|
| Ornamental; Reinforcing; & | | |
| Structural | 21.26 | 11.42 |
| Fence Erector | 17.53 | 11.42 |

IRON0769C 06/01/2002

Rates Fringes

ADAMS (Eastern Half), JACKSON (Southern Half) & SCIOTO COUNTIES:

IRONWORKERS:

| | | |
|--------|-------|-------|
| ZONE 1 | 24.92 | 11.14 |
| ZONE 2 | 25.32 | 11.14 |
| ZONE 3 | 27.32 | 11.14 |

ZONE 1 - Up to 10 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 2 - 10 to 50 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 3 - 50 mile radius & over of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

IRON0787B 06/01/2002

Rates Fringes

MORGAN, NOBLE & WASHINGTON COUNTIES:

| | | |
|-------------|-------|-------|
| IRONWORKERS | 24.33 | 10.90 |
|-------------|-------|-------|

LABO0083A 06/01/2002

Rates Fringes

ADAMS, HIGHLAND, JACKSON, PIKE, ROSS, SCIOTO & VINTON COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 24.47 | 4.40 |
| GROUP 2 | 24.72 | 4.40 |
| GROUP 3 | 24.97 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Carpenter Tender; Bottom
Man; Mason Tender; Mortar Mixer; Pipe Layer; Plasterer Tender;
Sheeting & Shoring Man; & Signalman

GROUP 2 - Air & Machine Driver Tool Operator; Asphalt Raker &
Smoother; Burning & Cutting Torch; Chain Saw; Form Setter
(Street & Highway); Hand Spiker; & Powered Concrete Buggy

GROUP 3 - Gunnite Machine Operator; Gunnite Nozzle Man; Miner (Tunnel & Caisson); Mucker (Tunnel & Caisson); & Powder Man & Blaster

HAZARDOUS & HIGH WORK IN EXCESS OF 25 FEET ABOVE SOLID BASE -
\$.25 PREMIUM

WORKERS HANDLING CREOSOTED OR INJURIOUS CHEMICALLY TREATED MATERIALS - \$.25 PREMIUM

THE ERECTION, ALTERATION, REPAIR OR DEMOLITION OF REINFORCED CONCRETE CHIMNEYS, MASONRY CHIMNEYS, SILOS, & FURNACES RECEIVE THE FOLLOWING RATES:

0 TO 25 FEET - BASE RATE; 25 TO 100 FEET - \$1.00 PREMIUM;
100 TO 150 FEET - \$1.25 PREMIUM; 150 TO 200 FEET - \$1.50 PREMIUM;
200 TO 250 FEET - \$1.75 PREMIUM; OVER 250 FEET - \$2.00 PREMIUM

LABO0134A 05/01/2002

Rates Fringes

COSHOCTON, HOLMES & TUSCARAWAS COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.96 | 4.40 |
| GROUP 2 | 19.26 | 4.40 |
| GROUP 3 | 19.74 | 4.40 |
| GROUP 4 | 20.01 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalman; Flagman; Carpenter Tender; Finisher Tender; Concrete Handler; Utility Construction; Guard Rail Erector; & Hazardous Waste Removal (Level D) Personal Protective Equipment (PPE)

GROUP 2 - Bottom Man; Scaffold Builder; Tunnel; Pipe Layer; Air & Power Driven Tool; Burner on Demolition Work; Swinging Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man & Dynamite Blaster; Creosote Worker; Form Setter; Plasterer Tender; Hod Carrier; All Confined Space Work; Furnaces; Pickel Tubs; Acid Pits & Hazardous Waste Removal (Level C) Personal Protective Equipment (PPE)

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender; Skid Steer Loader; & Hazardous Waste Removal (Level B)

Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A)
Personal Protective Equipment (PPE)

LABO0265A 06/01/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

BROWN, CLERMONT & CLINTON COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 20.00 | 4.65 |
| GROUP 2 | 20.10 | 4.65 |
| GROUP 3 | 20.15 | 4.65 |
| GROUP 4 | 20.20 | 4.65 |
| GROUP 5 | 20.50 | 4.65 |
| GROUP 6 | 20.75 | 4.65 |

LABORER CLASSIFICATIONS

GROUP 1 - Building and Common Laborer; Asbestos Removal; Cement
Mason Tender; Hand-Operated Mechanical Mule; Mechanical
Mule; Mechanical Sweeper; Signaler; Flagger; Wrecking
Laborer

GROUP 2 - Bottom Man; Pipe Layer

GROUP 3 - Skid Steer; Burning Torch Operator; Jack Hammer;
Air Spade; Chipping Hammer; Mechanical and Air Tamper
Operator; Mechanical Concrete Buggy; Power Operated
Mechanical Mule; Concrete Pump Hose Man; Vibrator Man;
CERCLA Trained Hazardous Material Removal-Levels A,B,C

GROUP 4 - Bottom Jack Hammer Man

GROUP 5 - Tunnel Laborer

GROUP 6 - Gunnite Nozzle Operator

LABO0265C 06/01/1997

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

BROWN, CLERMONT & CLINTON COUNTIES:

PLASTERERS' TENDERS:

| | | |
|--------|-------|------|
| Tender | 18.30 | 3.90 |
|--------|-------|------|

| | | |
|---------------------|-------|------|
| Mixer Pump Operator | 18.45 | 3.90 |
|---------------------|-------|------|

LABO0265G 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BROWN, CLERMONT & CLINTON COUNTIES:

| | | |
|-------------------------|-------|------|
| LABORERS, Mason Tenders | 21.65 | 4.65 |
|-------------------------|-------|------|

* LABO0329A 05/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN & AUGLAIZE COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.40 | 4.40 |
| GROUP 2 | 19.55 | 4.40 |
| GROUP 3 | 19.70 | 4.40 |
| GROUP 4 | 19.90 | 4.40 |

LABORER CLASSIFICATION

GROUP 1 - Building; Signal Person; Power Wheelbarrow or Power Buggy; Removal of Asbestos & Hazardous Waste (Levels C & D)

GROUP 2 - Vibrator; Cement Finisher Tender; Cement Raker; Asphalt Raker; Tamper & Packer; Pump Man Under 4" Discharge; Caisson; Cofferdam; Tunnel Spiker Railroad (By Hand); Pot Tender; Torch Man; Demolition; Machine Driven Tools (Gas, Electric, Air)

GROUP 3 - Plaster Tender; Mortar Mixer; Cylinder, Shaft; Sewer, Water Conduit; Gas, Oil Pipeline, except Mainlines; Sewer Bottom Man; Sewer Pipe Layer; Manhole Builder; Blaster Tender; Wagon Drill Tender; Jack Hammer; Gunnite Operator; Mucker (Tunnel & Caisson) Free Air; Miner (Tunnel & Caisson) Free Air; Sand Blaster; Blaster-Powder Man; Wagon Drill/Operator; & Removal of Toxic & Hazardous Waste (Levels A & B)

GROUP 4 - Mason Tender

LABO0423A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, LICKING, MADISON &

PICKAWAY COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.98 | 4.40 |
| GROUP 2 | 19.29 | 4.40 |
| GROUP 3 | 19.60 | 4.40 |
| GROUP 4 | 19.91 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - General laborers; Carpenter tender; Cathodic protection; Cleaning debris; Cleaning of all material; General clean-up including vacuum cleaning, scraping and cleaning of walls and floors; Landscape; Installation and removal of fencing; Sod layers; All portable heaters; Flagman; Loading and unloading of all trucks; Handling and conveying all materials; Washing of all windows; Conveyer belt; Jurisdiction over the use of all water pumps up to and including 3 inch intake

GROUP 2 - Skid steer specialist; Concrete specialist; Brick tender; Stone mason tender; Plaster tender; Mortar mixer and; operator; Cement mason tender; Construction specialist;

All scaffold builders; Bush hammering; Jack hammer operator; Air or electrical pneumatic tool operator; Power driven tools; Power buggy operators; Pouring and placement of all concrete; Power wheelbarrow operator; Asphalt and blacktop rakers; Wall wrecker and bar man on demolition; Sand blasting and chipping; Welders on demolitions; Grade checkers; A person on a bucket pouring concrete; Guniting nozzle man; Wagon and churn drill operator; Concrete saw operator; Brush feeders on pulverizers; Pipe layers; Pavers set in sand; Bottom man; Laser gun; Burners; Sand blasting of concrete; Vibrator man; Steward; Signal man; Caisson; Caisson bottom man; Pile drivers; Asbestos and lead abatement laborers; Hazardous waste level B

GROUP 3 - Hazardous waste level C

GROUP 4 - Hazardous waste level D

LABO0480A 06/01/2002

Rates Fringes

ERIE, HURON, OTTAWA & SANDUSKY COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 21.91 | 4.40 |
| GROUP 2 | 22.11 | 4.40 |
| GROUP 3 | 22.51 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction Laborer; Carpenter Tender; Concrete Handler; Finisher Tender; Guard Rail Erector; Railroad Spur Work; Utility Construction Laborer; Signal Person; & Flagperson

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on Demolition Work; Caisson Worker; Cofferdam Worker; Creosote Worker; Form Setter; Hod Carrier; Mason Tender; Mortar Mixer; Mucker; Pipelayer; Plasterer Tender; Powder Man & Dynamite Blaster; Scaffold Builder; Stonemason Tender; Swinging Scaffold; Tunnel Laborer; & Wet & Dry Vacuum Devices

GROUP 3 - Caustic Lime Worker; Dry Sandblast; Gunnite Operator; Radioactive Atmosphere Worker (Special wearing apparel required); Asbestos Removal; & Hazardous Waste Removal

* LABO0500A 07/01/2002

Rates Fringes

WOOD COUNTY:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.30 | 6.97 |
| GROUP 2 | 19.50 | 6.97 |
| GROUP 3 | 19.70 | 6.97 |
| GROUP 4 | 19.80 | 6.97 |
| GROUP 5 | 9.78 | 6.97 |
| GROUP 6 | 12.80 | 6.97 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalperson; Flagperson; Carpenter Tender; Utility Construction; Guard Rail Erector; Deep Cleaning; & Hazardous Waste (Level A)

GROUP 2 - Finisher Tender; Concrete Handler; Bottom Man; Scaffold Builder; Tunnel Laborer; Pipelayer; Air & Power Driven Tools;

Burner on Demolition Work; Swinging Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man & Dynamite Blaster; Creosote Worker; Mortar Mixer; Form Setter; Mason Tender; Plasterer Tender; Hod Carrier; Stonemason Tender & Hazardous Waste (Level B)

GROUP 3 - Gunit Operator & Hazardous Waste (Level C)

GROUP 4 - Hazardous Waste (Level D)

GROUP 5 - Parking & Landscaping

GROUP 6 - Installation of Fencing

FIREBRICK WORK OVER 50 FEET, EXPEDITERS, HOT PAY, BOTTOM MAN & TOP MAN - \$.75 PER HOUR OVER GROUP 1.

LABO0530A 06/01/2002

Rates Fringes

GUERNSEY, MUSKINGUM, NOBLE & PERRY COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.57 | 4.40 |
| GROUP 2 | 18.82 | 4.40 |
| GROUP 3 | 19.07 | 4.40 |
| GROUP 4 | 20.07 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Carpenter Tender; Tree Planter; Landscape Tree Trimmer; & Asbestos Removal, Hazardous Waste Removal

GROUP 2 - Air & Machine Driven Tool Operator; Asphalt Plant Aggrement Operator; Asphalt Plant Mixer Man; Car Pusher and Tunnel Laborer; Caulker; Cement Handler; Concrete Puddler (Behind Mixer); Curb Cutter & Setter; Cutting with Burning Torch; Dumpman; Hand Spiker (Railroad); Jackhammer Operator; Mucker (Tunnel & Caisson); Pipelayer; Proportioning Plant Operator; Pump Man; Road Form Setter; Sewer Bottom Man; Sheeting & Shoring Man; Vibrator Operator; & Yarnier & Wrench Man

GROUP 3 - Mason Tender; Mortar Mixer Man; Brick Slinger;

Stone Mason Tender; Plaster Tender; Lock Tender; Brick Dropper

GROUP 4 - Powder Man or Blaster; & Toxic/Hazardous Waste

LABO0534A 06/01/2002

Rates Fringes

BUTLER & WARREN COUNTIES:

LABORERS:

| | | |
|----------|-------|------|
| GROUP 1 | 20.14 | 4.40 |
| GROUP 2 | 20.24 | 4.40 |
| GROUP 3 | 20.34 | 4.40 |
| GROUP 4 | 20.47 | 4.40 |
| GROUP 5 | 20.72 | 4.40 |
| GROUP 6 | 20.49 | 4.40 |
| GROUP 7 | 20.74 | 4.40 |
| GROUP 8 | 20.63 | 4.40 |
| GROUP 9 | 20.59 | 4.40 |
| GROUP 10 | 20.84 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Common Laborer; Rough Rider - 4" Small Pump; Portable Generator - Bobcat to Cleanup

GROUP 2 - Asphalt Raker; Chisel; Hand Air Pump; Hand Air Tamper; Handling & Laying Precast Concrete Floor & Deck; Power Tamper Operator; Smoother; Switch Assemblies; & Tamper

GROUP 3 - Concrete Specialist; Skid Steer (to perform laborers' duties); Jack Hammer and Concrete Buster; Barco Tamper Man; Power Georgia Buggy Man; Power Sweeper Man; Vibrator; Concrete Saw Man; Rail Spikers; Acetylene Burner Pipe Layers; Bos'N or Cradleman; Bottom Man; Chipping Hammer Grade Checker; Form Cleanout and Blowout Man; Red Concrete Coloring Man (Electrical Safety)

GROUP 4 - Mason Tender; Mortar Mixer & Scaffold Builder

GROUP 5 - Forklift for Mason; Work involving Refractory Materials, including Demolition; Asbestos Removal & Hazardous Waste Removal (Handling, control, removal, abatement, encapsulation or disposal of asbestos & hazardous waste)

GROUP 6 - Gunnite Man; Sand Blaster Concrete Pump & Hose Man;
& Blast Trac

GROUP 7 - Miner & Mucker, Free Air

GROUP 8 - Powderman or Blaster Above Ground

GROUP 9 - Mortar or Gypsum Machineman

GROUP 10 - Powderman Underground; & Scuba Diver

* LABO0574A 05/01/2002

Rates Fringes

DELAWARE COUNTY:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.98 | 4.40 |
| GROUP 2 | 19.29 | 4.40 |
| GROUP 3 | 19.60 | 4.40 |
| GROUP 4 | 19.91 | 4.40 |

HANCOCK, SENECA & WYANDOT COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 20.55 | 4.40 |
| GROUP 2 | 20.85 | 4.40 |
| GROUP 3 | 21.05 | 4.40 |
| GROUP 4 | 21.25 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1: Building & Construction; Signalman; Flagman;
Carpenter Tender; Finisher Tender; Concrete Handler; Utility
Construction; Guard Rail Erector; Fence Installer; Caulker; &
Hazardous Waste (Level A)

GROUP 2: Bottom Man; Scaffold; Mucker; Caisson Worker; Powder
Man; Dynamite Blaster; Creosote Worker; Mortar Mixer; Form
Setter; Plasterer Tender; Hod Carrier; Stonemason Tender &
Hazardous Waste (Level B)

GROUP 3: Mason Tender; Guniting Operator & Hazardous Waste
(Level C)

GROUP 4: Hazardous Waste (Level D)

* LABO0639A 06/01/2002

Rates Fringes

MONROE, MORGAN & WASHINGTON COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 23.02 | 4.40 |
| GROUP 2 | 23.37 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Plant Aggrementer; Asphalt Plant Miner Man; Brick Slinger; Building & Construction; Car Pusher & Tunnel Laborer; Carpenter Tender; Cement Handler; Concrete Puddler Behind Mixer; Concrete Smoother; Drum Fireperson; Dump Man Batch Truck; Flagperson; Landscape Planter; Proportioning Plant Operator; Rammer Man; & Spreader Box Man

GROUP 2 - Air, Gas or Machine Driven Tool; Asphalt Raker; Tamper, Forker, Shoveler or Smoother; Caulker, Yarnier & Wrenchman; Cement Mason Tender; Curb Setter & Cutter; Form Setter; Grade Checker; Jackhammer Operator; Mason Tender; Mortar Mixer; Mucker (Tunnel & Caisson); Pipelayer; Pump Man (4" & Under); Sewer Bottom Man; Sheeting & Shoring Man; Stonemason Tender; Vibrator Operator; Plasterer Tender; Hand Spiker (Railroad); Concrete & Georgia Buggy Pusher; Deep Trench Work (Over 6'); Cutting & Burning Torch; Hydro-Water Jet Operator; Brick Dropper; Lock Tender; Miner (Tunnel & Caisson); Powderman or Blaster; & Signalperson

LABO0809A 07/01/2002

Rates Fringes

HARRISON & JEFFERSON COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.82 | 5.40 |
| GROUP 2 | 19.99 | 5.40 |
| GROUP 3 | 20.02 | 5.40 |
| GROUP 4 | 20.06 | 5.40 |
| GROUP 5 | 20.15 | 5.40 |
| GROUP 6 | 20.32 | 5.40 |
| GROUP 7 | 20.35 | 5.40 |

| | | |
|----------|-------|------|
| GROUP 8 | 20.50 | 5.40 |
| GROUP 9 | 20.65 | 5.40 |
| GROUP 10 | 20.72 | 5.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Carpenter Tender; Flagperson; General; Landscaper;
& Hazardous Waste Level D

GROUP 2 - Brick Handler; Tender for Brick Mason, Plasterer &
Stonemason; Mortarman for Mason & Plasterer; Man Mixing Cement
for Cement Finisher; Scaffold Builder; Mortar Mixer Machine
Operator; Fork Lift; Hazardous Waste Level C; Fork Truck; Walk
Behind Concrete Saw; Form Setter; Epoxy; Paving Brick; Dry
Block; Precast, Lagging, Decorate Blocks & Sand Stone

GROUP 3 - Concrete Buster; Jack Hammer; Air Spade; Chipping
Hammer; Air Tamper; Vibrator; Power Buggy; Concrete Saw; Power
Saw; Sandblaster; Acetylene Burner; Scuba Diver; Panel Cleaning
Machine Operator; Signalman; Power Driven Tool; Air Pump; Air
Blow Pipe; Pipelayer & Tender Working in Ditch or Tunnel; Hand
Spiker on Railroad & Handling Concrete for Test or Working with
Tar, Acid, Creosote & Asbestos, 2" & Under; Skid Steers;
Hazardous Waste Level B; Fire Hose; High Pressure Water Hose;
Super Sucker; Vacuum Truck & Hose; Core Driller; Drilling For
Anchor Bolts; & Dowel Rods & Pins

GROUP 4 - Ditch, Trench, Caisson & Coffers Over 6' deep, Open
Top

GROUP 5 - Work Pertaining to or in connection with & Repair of

Stove, Blast Furnace, Basic Oxygen Process Furnace, Basic
Oxygen Furnace, Steeple & Stack, Annealing Process Furnace,
Kiln, Soaking Pit, Coke Battery on Industrial Work; Hazardous
Waste Level A; Ram Cutter; Boiler on Industrial Work & Anything
pertaining to, such as Expansion Joints, etc.; Demolition of
Stack 50' to 100'; Tunnel; Mucker, including Caisson & Coffers,
Horizontal & Underground

GROUP 6 - Demolition of Stack 100' to 150'

GROUP 7 - Miner, including Caisson & Coffers, Horizontal or
Underground, Mucking Machine Operator

GROUP 8 - Blasterman & Tender; Bellman & Lancer; Bottom Man in

Blast Furnace, Stack, Stove & Dust Catcher; Mud Man & Working
with Carbon Brick & Handling Bottom Block on Blast Furnace,
Stack, Stove & Dust Catcher

GROUP 9 - Gunnite Nozzleman & Gunnite Machine Operator - Grout
Nozzleman & Grout Machine Operator

GROUP 10 - Demolition of Stack over 150'

LABO1015A 05/01/2002

Rates Fringes

WAYNE COUNTY:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.30 | 4.40 |
| GROUP 2 | 19.60 | 4.40 |
| GROUP 3 | 19.90 | 4.40 |
| GROUP 4 | 19.90 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalman; Flagman;
Carpenter Tender; Finisher Tender; Concrete Handler; Utility
Construction; Guard Rail Erector; & Hazardous Waste Removal
(Level D) Personal Protective Equipment (PPE)

GROUP 2 - Bottom Man; Scaffold Builder; Tunnel; Pipe Layer; Air
& Power Driven Tool; Burner on Demolition Work; Swinging
Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man
& Dynamite Blaster; Creosote Worker; Form Setter; Plasterer
Tender; Hod Carrier; All Confined Space Work; Furnaces; Pickel
Tubs; Acid Pits & Hazardous Waste Removal (Level C) Personal
Protective Equipment (PPE)

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender;
Skid, Steer Loader; & Hazardous Waste Removal (Level B)
Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A)
Personal Protective Equipment (PPE)

LABO1149B 07/01/2002

Rates Fringes

BELMONT COUNTY:

| | | |
|---------|-------|------|
| GROUP 1 | 16.77 | 8.00 |
| GROUP 2 | 17.07 | 8.00 |
| GROUP 3 | 17.42 | 8.00 |

LABORER CLASSIFICATIONS

GROUP 1 - Unskilled; Carpenter Tender; Flagperson; Demolition Worker; Fire Watch; & Landscaper

GROUP 2 - Powderman on Concrete Pump Hose; Semi-skilled Laborer; Scaffold Builder; Grade Checker; Signalperson; Tenders of: Brickmasons, Plasterers, Cement Finishers & Stonemasons; Mortar Mixer; Operators of: Jackhammers, Forklifts, Bobcats, Vibrators, Tampers, Pavement Busters, Chipping & Peening Hammers, Air Siphon & Air Pumps, Concrete Saws, Power Saws, Chain Saws, Motorized Buggies, Post Hole Diggers, Lance and/or Water Blasters & Batch House Scales; Riprap Finisher; Concrete Specialist; Concrete Technician; Sheeter & Shorer; Asphalt Raker; Persons Working with: Mastic Asphalt, Acid Brick, Acid & Creosote; Nozzleman for Gunnite or Sandblasting; Demolition Worker; Ride or Walk Roller Tamper; Deep Ditch Vertical & Manholes 6 ft. or more; Scaffolding Work over 50 ft. (inside or out); Asbestos Abatement; Hazardous Waste Worker; & Environmental Worker

GROUP 3 - Blacksmith; Powderman; Air Track Operator; Pipe Layer; & Burner

LABO1216A 06/01/2002

Rates Fringes

ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 21.22 | 4.00 |
| GROUP 2 | 21.42 | 4.00 |
| GROUP 3 | 22.72 | 4.00 |

LABORER CLASSIFICATIONS

GROUP 1 - Asbestos Handler; Building & Construction; Carpenter Tender; Concrete Handler; Finisher Tender; Flagperson; Guard Rail Erector; Hazardous Waste (Levels C & D); Signalperson; & Utility Construction Laborer

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on Demolition Work; Caisson Worker; Cofferdam Worker; Creosote Worker; Form Setter; Guniting Operator; Hazardous Waste (Levels A & B); Hod Carrier; Mucker; Pipe Layer; Plasterer Tender; Powder Man & Dynamite Blaster; Swinging Scaffold; & Tunnel Laborer

GROUP 3 - Mason Tender; Mortar Mixer; Scaffold Builder; & Stonemason Tender

LABO1410A 06/01/2002

Rates Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 12.93 | 4.60 |
| GROUP 2 | 15.93 | 4.60 |
| GROUP 3 | 18.45 | 4.60 |
| GROUP 4 | 20.15 | 4.60 |
| GROUP 5 | 20.65 | 4.60 |

LABORER CLASSIFICATIONS

GROUP 1 - Signalman

GROUP 2 - Yardman-Landscaping; Sewer Jet; Unloading of Furniture and Fixtures; Final Clean-Up

GROUP 3 - Building & Construction; Railroad; Asbestos & Hazardous Waste (Levels A, B, C & D); Concrete Crew; Form Setter; Pipelayer; Bottom Man; Burner (Cutting Torch); All Machine & Power Driven Tools; Sandblaster

GROUP 4 - Mason Tender for Bricklayers; Flexicore; Firebrick Tender (Blast Furnaces, Soaking Pits, Stoves & Stacks); Plasterer Tenders

GROUP 5 - Tender Operator

LABO1410B 05/01/2002

Rates Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

LABORERS:

| | | |
|----------------------------------|-------|------|
| Tender for: Bricklayers, Mason & | | |
| Flexicore | 20.15 | 4.40 |
| Tender Operator | 20.65 | 4.40 |

PAIN0006U 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ERIE, HANCOCK, HURON, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), SANDUSKY, SENECA & WYANDOT COUNTIES:

PAINTERS:

| | | |
|------------------|-------|------|
| Brush & Roller | 20.22 | 6.38 |
| Paperhanging | 20.47 | 6.38 |
| Structural Steel | 20.67 | 6.38 |

| | | |
|---------|-------|------|
| Drywall | 20.72 | 6.38 |
|---------|-------|------|

WINTER REPAINT: Between December 1 to March 31 - 90% JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and horizontal cable.

While operating sprayguns, sandblasting, cobblasting, high pressure waterblasting (4000 psi), and for automatic taping and finishing tools for drywall.

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy that is demed hazardous, lead abatement, or for work or material where special precautions beyond normal work duties must be taken.

For working on stacks, tanks, and towers over 40 feet in height.

PAIN0006W 07/01/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback,

Gem Beach & Genova) & WOOD COUNTIES:

PAINTERS:

NEW COMMERCIAL BUILDING WORK:

| | | |
|---------|-------|------|
| GROUP 1 | 22.09 | 7.20 |
| GROUP 2 | 22.34 | 7.20 |
| GROUP 3 | 22.59 | 7.20 |
| GROUP 4 | 22.84 | 7.20 |
| GROUP 5 | 22.79 | 7.20 |
| GROUP 6 | 23.09 | 7.20 |

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Paperhanger; Drywall Taper & Finisher; Spray
& Sandblasting Pot Tender

GROUP 2 - Refineries; & All Surfaces 30 ft. or over where
material is applied to or labor performed on above ground
level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Application of Catalized Epoxies and Waterbased
Epoxies of 2 or more component materials; Lead Paint
Abatement

GROUP 5 - All Methods of Spray, Paint or any Material Applied
with a Pressure Device

GROUP 6 - Solvent Based Material; Sand and Abrasive Blasting

PAIN0012I 06/09/2001

Rates Fringes

BUTLER COUNTY:

PAINTERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.66 | 7.09 |
| GROUP 2 | 19.16 | 7.09 |
| GROUP 3 | 19.41 | 7.09 |
| GROUP 4 | 19.66 | 7.09 |

PAINTERS CLASSIFICATIONS

GROUP 1: Brush & Roller; Paperhanger; & Drywall Taping

GROUP 2: Spray

GROUP 3: Sandblasting; & Waterblasting

GROUP 4: Lead Abatement

PAIN0012L 06/09/2001

Rates Fringes

BROWN, CLERMONT, CLINTON & WARREN COUNTIES:

PAINTERS:

| | | |
|---------|-------|------|
| GROUP 1 | 21.05 | 4.70 |
| GROUP 2 | 21.55 | 4.70 |
| GROUP 3 | 21.80 | 4.70 |
| GROUP 4 | 22.05 | 4.70 |
| GROUP 5 | 22.80 | 4.70 |

PAINTER CLASSIFICATIONS

GROUP 1: Brush; Roller; Paperhanger; & Drywall Taping

GROUP 2: Spray

GROUP 3: Sandblasting; Waterblasting; & Hopper Tender

GROUP 4: Hazardous Work; High Work; Steeplejack; & Lead Abatement Projects

GROUP 5: Sandblasting, Hopper Tender & Waterblasting Under Hazardous Conditions

PAIN0012P 11/01/2002

Rates Fringes

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY & ROSS COUNTIES:

PAINTERS:

| | | |
|---|-------|------|
| Brush; Paperhanger; Roller; & Wall Washing | 22.52 | 6.02 |
| Drywall Sander | 22.27 | 6.02 |
| Structural Steel & Swing Stage | 22.82 | 6.02 |

| | | |
|--|-------|------|
| Drywall Taper & Finisher | 22.92 | 6.02 |
| Spray | 23.02 | 6.02 |
| Sandblasting; Steamcleaning; Waterblasting (3500 PSI or Over) & Hazardous Work | 23.22 | 6.02 |

PAIN0012V 05/01/2002

Rates Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

PAINTERS:

| | | |
|--|-------|------|
| GROUP 1 - Brush; Roller | 20.34 | 5.33 |
| GROUP 2 - Spackling & Drywall Finishing; Vinyl - Paper Wallcovering | 20.69 | 5.33 |
| GROUP 3 - Swing & Scaffold; Structural Steel; High Tension Electrical Equipment; Hot Pipes | 20.75 | 5.33 |
| GROUP 4 - Spray; Sandblasting; Steam Cleaning; & Lead Paint Abatement | 21.09 | 5.33 |
| GROUP 5 - Steeplejack Work - Church Steeple, Smoke Stacks & Hazardous Work | 21.29 | 5.33 |
| GROUP 6 - Coal Tar | 21.84 | 5.33 |

* PAIN0093A 06/01/2002

Rates Fringes

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON COUNTIES:

PAINTERS (All Work, except Light Commercial Work):

| | | |
|--|-------|------|
| Brush; Roller; & Taper | 23.73 | 4.80 |
| Spray; Sandblasting; & Power Tool Under 30' Preparation Confined Areas; & Toxic Material Handlers | 25.50 | 4.80 |

* PAIN0093C 06/01/2002

Rates Fringes

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON COUNTIES:

PAINTERS:

Separate contracts let which are

not in excess of \$5,000,000.00
 total project construction costs 19.07 4.80

 PAIN0356A 07/01/1999

Rates Fringes

LICKING, MUSKINGUM & PERRY COUNTIES:

PAINTERS:

| | | |
|--|-------|------|
| Brush; Roller; Hopper Tender; & Washing | 16.00 | 3.27 |
| Spray; Steamcleaning; Taping; Paperhanging & Wallcovering (furnishing tools) | 16.50 | 3.27 |
| Sandblasting; Waterblasting | 17.00 | 3.27 |
| Lead Abatement | 18.00 | 3.27 |
| Sandblasting, Hopper Tender & Waterblasting Under Hazardous Conditions | 19.00 | 3.27 |
| High Work | 19.25 | 3.27 |

PAIN0372A 02/01/2001

Rates Fringes

DELAWARE, FAIRFIELD, FAYETTE (West of State Rte. #41), FRANKLIN,
 HOCKING, JACKSON, LICKING, MADISON, MORGAN, MUSKINGUM, PERRY,
 PICKAWAY, PIKE, ROSS & VINTON COUNTIES:

| | | |
|----------|-------|--------|
| GLAZIERS | 20.92 | 5.02+a |
|----------|-------|--------|

FOOTNOTE:

a. 1 Paid Holiday: Labor Day

PAIN0387A 11/25/2001

Rates Fringes

ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAYETTE (Eastern part),
 GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN COUNTIES:

| | | |
|----------|-------|------|
| GLAZIERS | 21.00 | 4.95 |
|----------|-------|------|

PAIN0406A 06/01/1999

Rates Fringes

ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND COUNTIES:

PAINTERS:

GROUP 1 - Drywall, Paperhanger,
Wall Coverer & Pot Tender when
tending 2 or more Sprayers or
Metalizing Workers 18.55 2.00

GROUP 2 - Brush; Cleaner; Roller;
& Washer 19.00 2.00

GROUP 3 - Structural Steel; &
Hazardous Materials, including
Epoxy and/or other materials;
Dirty Factory Work; & Lead
Abatement 19.50 2.00

GROUP 4 - Riggers on Work more than
30 ft. above base level, includes
base level & up work; Spray; &
Electrostatic Applications 19.75 2.00

GROUP 5 - Blasting: Sand, Grit,
Shot, Water; & Metalizing Workers 20.15 2.00

SWING STAGE, WINDOW JACKS, BOATSWAIN CHAIR, SPIDER, CHERRY PICKER
AND OTHER TYPES OF LIFTS - \$.25 PREMIUM

PAIN0438A 07/01/2001

Rates Fringes

BELMONT, HARRISON & JEFFERSON COUNTIES:

PAINTERS:

GROUP 1 20.24 5.34

GROUP 2 20.90 5.34

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Roll; Drywall Taping; & Spray

GROUP 2 - Special Coatings (Anything thinned by MEK, alcohol,
hot or experimental thinners, coal tar epoxies & any
experimental paints); Waterblast; Sandblast; Power Tools; Lead
Abatement; Vinyl Hanging; & Bazooga & Banjo Tools for Taping

* PAIN0555A 11/01/2002

Rates Fringes

ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO COUNTIES:

PAINTERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.34 | 8.22 |
| GROUP 2 | 20.34 | 8.22 |

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Roller; Taping; & Wallcovering

GROUP 2 - Floor Sanding; Power Tools; Sandblasting; Spray; Steam Cleaning; Pressure Washing; Lead Abatement; Hazardous Waste, Toxic Materials; Epoxy & Two Component Materials

PAIN0603A 06/01/2001

Rates Fringes

COSHOCTON, HOLMES, TUSCARAWAS & WAYNE COUNTIES:

PAINTERS:

| | | |
|-----------------------------|-------|------|
| Brush & Roller | 17.20 | 7.39 |
| Paperhanger | 17.30 | 7.39 |
| Spray | 17.70 | 7.39 |
| Drywall Taper | 17.60 | 7.39 |
| Drywall Taper With Machines | 17.95 | 7.39 |

Swing Stage, Ladder Jack & Window Jack - \$.30 Premium

PAIN0639A 05/01/2002

Rates Fringes

| | | |
|------------------------|-------|-------|
| SIGN PAINTER & ERECTOR | 17.12 | 4.27+ |
| a+b+c | | |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th; Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day

b. Vacation Pay: After 1 year's service - 5 days' paid vacation; After 2, but less than 10 years' service - 10 days' paid vacation; After 10, but less than 20 years' service - 15 days' paid vacation; After 20 years' service - 20 days' paid vacation

c. Funeral leave up to 3 days maximum paid leave for death of mother, father, brother, sister, spouse, child, mother-in-law, father-in-law, grandparent and inlaw provided employee

attends funeral

PAIN0751H 07/01/2001

| | Rates | Fringes |
|---|-------|---------|
| BELMONT, HARRISON, JEFFERSON, & MONROE, COUNTIES: | | |

| | | |
|----------|-------|------|
| GLAZIERS | 18.73 | 7.03 |
|----------|-------|------|

PAIN0751K 07/01/2001

| | Rates | Fringes |
|---------------------------------------|-------|---------|
| GUERNSEY, NOBLE & WASHINGTON COUNTIES | | |

| | | |
|----------|-------|------|
| GLAZIERS | 14.49 | 6.00 |
|----------|-------|------|

PAIN0813D 06/01/2001

| | Rates | Fringes |
|----------------|-------|---------|
| VINTON COUNTY: | | |

PAINTERS:

| | | |
|---------|-------|------|
| GROUP 1 | 20.30 | 7.00 |
| GROUP 2 | 21.65 | 7.00 |
| GROUP 3 | 20.85 | 7.00 |

PAINTER CLASSIFICATIONS

GROUP 1 - Brush & Roller

GROUP 2 - Spray; Sandblasting; Drywall Finishing & Texturing

GROUP 3 - Wallcovering & Vinyl; Machine, Toolstand & Stilts

PAIN1162A 06/01/2001

| | Rates | Fringes |
|---|-------|---------|
| COSHOCTON, HOLMES, TUSCARAWAS & WAYNE COUNTIES: | | |

| | | |
|----------|-------|------|
| GLAZIERS | 20.03 | 6.06 |
|----------|-------|------|

PAIN1195D 11/05/2002

| | Rates | Fringes |
|----------------|-------|---------|
| SCIOTO COUNTY: | | |

| | | |
|----------|-------|------|
| GLAZIERS | 23.11 | 3.85 |
|----------|-------|------|

PAIN1920A 05/01/1998

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, CRAWFORD, HURON (S. part), KNOX, RICHLAND &
WYANDOT (E. part) COUNTIES:

GLAZIERS:

| | | |
|------------------------|-------|-----|
| Outside Replacement | 12.08 | .51 |
| Outside All Other Work | 12.58 | .51 |

PAIN6000E 04/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN & AUGLAIZE COUNTIES:

PAINTERS:

| | | |
|---|-------|------|
| Brush; Roller; & Drywall Taping | 17.20 | 5.30 |
| Paperhanger | 17.45 | 5.30 |
| Spray; Sandblasting; Pressure Cleaning & Drywall (Using stilts & automatic tools) | 17.95 | 5.30 |

Swing Stage, Chair, Safety Belts, Spiders & Cherry Pickers -
\$.25 premium

All Surfaces 40 ft. or over where material is applied to or
labor performed on, above ground level (exterior), floor level
(interior) - \$.50 premium

Applying Coal Tar Products - \$1.00 premium

PAIN6000H 05/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ERIE (Excluding NW tip to Route #4), & HURON (NE part) COUNTIES:

| | | |
|----------|-------|------|
| GLAZIERS | 24.24 | 8.02 |
|----------|-------|------|

PAIN6000J 09/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN, AUGLAIZE, HANCOCK & WYANDOT (W. part) COUNTIES

| | | |
|----------|-------|------|
| GLAZIERS | 14.85 | 3.50 |
|----------|-------|------|

PAIN6000K 07/01/2001

Rates Fringes
 ERIE (NW tip of county to Route #4), OTTAWA, SANDUSKY, SENECA,
 & WOOD COUNTIES

| | | |
|----------|-------|------|
| GLAZIERS | 23.53 | 5.79 |
|----------|-------|------|

PLAS0001A 06/22/1999

Rates Fringes
 BROWN, BUTLER, CLERMONT, HIGHLAND & WARREN COUNTIES:

PLASTERERS:

Pointing & Taping of Drywall
 Surfaces, Acoustical Finishes on
 Concrete & Drywall Surfaces 18.40 2.60

| | | |
|----------------|-------|------|
| All Other Work | 21.25 | 2.60 |
|----------------|-------|------|

PLAS0001P 06/01/1998

Rates Fringes
 ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN,
 HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
 PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding Tymochtee,
 Crawford, Ridge & Richland Townships) COUNTIES:

PLASTERERS:

On Exterior Insulation Finish
 Systems 14.60 4.91
 All Other Work 17.83 4.87

PLAS0001Q 06/01/1998

Rates Fringes
 ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN,
 HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
 PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding the
 townships of Tymochtee, Crawford, Ridge & Richland) COUNTIES:

| | | |
|---------------|-------|------|
| CEMENT MASONS | 18.03 | 5.00 |
|---------------|-------|------|

PLAS0001R 06/01/1998

Rates Fringes
MONROE, NOBLE & WASHINGTON COUNTIES:

CEMENT MASONS 17.41 4.93

PLAS0001S 06/01/1998

Rates Fringes
MONROE, NOBLE & WASHINGTON COUNTIES:

PLASTERERS 17.83 4.87

PLAS0039A 07/01/2002

Rates Fringes
BELMONT, HARRISON & JEFFERSON COUNTIES:

CEMENT MASONS 20.73 7.13

PLAS0039B 07/01/2002

Rates Fringes
BELMONT, HARRISON & JEFFERSON COUNTIES:

PLASTERERS 21.13 6.55

PLAS0132B 06/01/1999

Rates Fringes
CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

CEMENT MASONS 19.18 6.30

PLAS0132D 06/01/1999

Rates Fringes
CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

PLASTERERS 20.25 6.20

PLAS0132F 06/01/2001

Rates Fringes
BROWN, BUTLER, CLERMONT, HIGHLAND & WARREN COUNTIES:

| | | |
|---------------|-------|------|
| CEMENT MASONS | 19.80 | 5.50 |
|---------------|-------|------|

PLAS0132J 06/01/2000

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, JACKSON, PIKE & SCIOTO COUNTIES:

| | | |
|---------------------------|-------|------|
| CEMENT MASONS; PLASTERERS | 23.98 | 6.97 |
|---------------------------|-------|------|

PLAS0886A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HANCOCK & WOOD COUNTIES:

| | | |
|---------------|-------|------|
| CEMENT MASONS | 25.38 | 8.77 |
|---------------|-------|------|

PLAS0886C 07/01/1999

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN & AUGLAIZE COUNTIES:

| | | |
|---------------|-------|------|
| CEMENT MASONS | 20.35 | 7.00 |
|---------------|-------|------|

PLAS0886D 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN, AUGLAIZE, HANCOCK & WOOD (Excluding Perry & Bloom Townships) COUNTIES:

| | | |
|------------|-------|------|
| PLASTERERS | 25.56 | 7.22 |
| DRYWALLERS | 24.20 | 7.22 |

PLUM0042A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, CRAWFORD, ERIE, HURON, KNOX, MORROW, RICHLAND & WYANDOT COUNTIES:

| | | |
|---------------------------------------|-------|-------|
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 23.70 | 11.50 |
|---------------------------------------|-------|-------|

PLUM0050A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES:

PIPEFITTERS; PLUMBERS; & STEAMFITTERS 28.10 12.20

PLUM0083A 07/01/2002

Rates Fringes

BELMONT & MONROE (North of Rte. #78) COUNTIES:

PLUMBERS & STEAMFITTERS 20.06 15.30

PLUM0094A 11/01/2002

Rates Fringes

WAYNE COUNTY:

PIPEFITTERS & PLUMBERS 23.45 10.32

PLUM0162A 06/01/2002

Rates Fringes

CLINTON, FAYETTE, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

PIPEFITTERS; PLUMBERS; STEAMFITTERS 25.15 9.27

PLUM0168A 06/01/2002

Rates Fringes

MONROE (South of Rte. #78), MORGAN (South of Rte. #78) &
WASHINGTON COUNTIES:

PIPEFITTERS & PLUMBERS 26.08 10.54

PLUM0189A 06/01/2002

Rates Fringes

DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON, PERRY,
PICKAWAY & ROSS COUNTIES:

PIPEFITTERS; PLUMBERS; &
STEAMFITTERS 26.50 9.98

* PLUM0392A 06/01/2002

Rates Fringes

BROWN, BUTLER, CLERMONT & WARREN COUNTIES:

PIPEFITTERS & PLUMBERS 26.00 8.09

PLUM0495A 06/01/2001

Rates Fringes

SHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South
to State Rte. #78 & from McConnelsville west on State Rte. #37
to the Perry County Line), MUSKINGUM, NOBLE & TUSCARAWAS
COUNTIES:

PIPEFITTERS; PLUMBERS; &
STEAMFITTERS

22.73 9.72

PLUM0577A 06/01/2002

Rates Fringes

ADAMS, HIGHLAND, JACKSON, PIKE, SCIOTO & VINTON COUNTIES:

PIPEFITTERS; PLUMBERS;
& STEAMFITTERS:

Manufacturing Plants, Testing
Facilities, Enrichment Plants,
Compressor Stations, Power
Generating Plants, Coke Plants,
Co-Generation Plants, Chemical
Plants, Incinerators & Steel
Mills

25.28 11.14

All Other Work 22.78 11.14

PLUM0776A 07/01/2002

Rates Fringes

ALLEN & AUGLAIZE COUNTIES:

PIPEFITTERS; PLUMBERS;
& STEAMFITTERS

23.94 10.80

ROOF0042A 08/01/2002

Rates Fringes

BROWN, BUTLER, CLERMONT & WARREN COUNTIES:

ROOFERS:

| | | |
|---------|-------|------|
| Roofers | 24.15 | 6.04 |
| Pitch | 25.15 | 6.04 |

ROOF0044A 05/01/2002

Rates Fringes
ERIE, OTTAWA & SANDUSKY COUNTIES:

| | | |
|---------|-------|-------|
| ROOFERS | 24.23 | 10.10 |
|---------|-------|-------|

ROOF0075A 05/01/1999

Rates Fringes
CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE COUNTIES:

ROOFERS:

| | | |
|--------------------------------|-------|------|
| Composition, Damp & Waterproof | 19.35 | 5.42 |
| Slate, Tile & Asbestos | 19.57 | 5.42 |

ROOF0086A 09/01/2001

Rates Fringes
AUGLAIZE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, KNOX,
LICKING, MADISON, MORROW, PERRY, PICKAWAY, ROSS & WYANDOT
COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 20.56 | 7.40 |
|---------|-------|------|

ROOF0088A 06/01/2001

Rates Fringes
ASHLAND, COSHOCTON, CRAWFORD, HOLMES, HURON, RICHLAND, SENECA,
TUSCARAWAS & WAYNE COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 19.95 | 6.96 |
|---------|-------|------|

ROOF0134A 07/01/2001

Rates Fringes
ALLEN, HANCOCK & WOOD COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 22.60 | 8.08 |
|---------|-------|------|

ROOF0185A 06/01/2002

Rates Fringes
ADAMS, JACKSON, PIKE, SCIOTO & VINTON COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 23.75 | 5.60 |
|---------|-------|------|

ROOF0188A 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:

ROOFERS:

| | | |
|------------------------------|-------|------|
| Roofers | 21.27 | 6.75 |
| Coal Tar Pitch Waterproofing | 21.52 | 6.75 |

ROOF0242A 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

GUERNSEY, MORGAN, MUSKINGUM, NOBLE & WASHINGTON COUNTIES:

| | | |
|---------|-------|------|
| ROOFERS | 20.94 | 6.73 |
|---------|-------|------|

* SFOH0669A 01/01/2003

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER,
CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE,
FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK,
HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON,
KNOX, LICKING, MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN,
MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE,
PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS,
VINTON, WARREN, WASHINGTON, WAYNE, WOOD & WYANDOT COUNTIES:

| | | |
|-------------------|-------|------|
| SPRINKLER FITTERS | 28.75 | 7.60 |
|-------------------|-------|------|

SHEE0024A 06/01/2001

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ALLEN, AUGLAIZE, BUTLER, CLINTON, GREENE, MIAMI, MONTGOMERY,
PREBLE, WARREN & WYANDOT COUNTIES:

| | | |
|---------------------|-------|------|
| SHEET METAL WORKERS | 23.41 | 9.91 |
|---------------------|-------|------|

SHEE0024B 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BROWN, CLERMONT & HIGHLAND COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.27 | 10.03 |
|---------------------|-------|-------|

SHEE0024G 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ADAMS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING,
JACKSON, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO & VINTON COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.12 | 11.49 |
|---------------------|-------|-------|

SHEE0033B 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

HANCOCK, OTTAWA, SENECA & WOOD COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 26.40 | 11.36 |
|---------------------|-------|-------|

SHEE0033E 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ASHLAND, COSHOCTON, CRAWFORD, HOLMES, RICHLAND, TUSCARAWAS &
WAYNE COUNTIES:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.48 | 11.05 |
|---------------------|-------|-------|

SHEE0033G 06/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

ERIE, HURON & SANDUSKY COUNTIES:

| | | |
|---------------------|-------|------|
| SHEET METAL WORKERS | 23.27 | 9.90 |
|---------------------|-------|------|

SHEE0033J 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

WASHINGTON COUNTY:

| | | |
|---------------------|-------|-------|
| SHEET METAL WORKERS | 23.43 | 11.73 |
|---------------------|-------|-------|

SHEE0033M 07/01/2002

| | |
|-------|---------|
| Rates | Fringes |
|-------|---------|

BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES:

SHEET METAL WORKERS 22.25 10.99

TEAM0175B 06/01/1999

Rates Fringes

WASHINGTON COUNTY:

TRUCK DRIVERS:

| | | |
|---------|-------|-------|
| GROUP 1 | 18.05 | .08+a |
| GROUP 2 | 18.15 | .08+a |
| GROUP 3 | 18.30 | .08+a |
| GROUP 4 | 18.45 | .08+a |
| GROUP 5 | 18.70 | .08+a |
| GROUP 6 | 18.80 | .08+a |
| GROUP 7 | 18.95 | .08+a |

FOOTNOTE:

a. \$1,072.12 per month

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Pick-Up; & Panel

GROUP 2 - Flat Body Material (Straight Jobs); Dump (Up to 5 cu. yds.); Greaser; Washer; Tireman; Mechanic; & Tank (Straight)

GROUP 3 - Dump (5 cu. yds. & over); Semi-Dump; Semi-Trailer (whether Flat, Rack or Pole and hauled or pushed by truck or tractor); Agitator or Mixed (Up to 5 cu. yds.); Tank (Semi); & Monorail

GROUP 4 - Low Boy Trailer; Winch; Fork; Distributor (Front & Back End); Truck Crane; Agitator or Mixer (5 cu. yds. & over); Hydraulic Tail Gate; & Farm Type Tractor

GROUP 5 - Euclid; Dumpster; Turnarocker; Ross Carrier; Athey Wagon or Similar Equipment; A-Frame; Hydrolift; & Dual Purpose

GROUP 6 - Mechanic

GROUP 7 - Master Mechanic (3 or more employed)

TEAM0377A 05/01/1997

Rates Fringes

ADAMS, ASHLAND, BROWN, BUTLER, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK (From the southern boundary of the city of Findlay to the northern boundary of Hancock County), HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON (South to Short Creek), KNOX, LICKING, MADISON, MIAMI, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN, WAYNE, WOOD, & WYANDOT COUNTIES:

TRUCK DRIVERS:

| | | |
|---------|-------|------|
| GROUP 1 | 16.29 | 6.22 |
| GROUP 2 | 16.34 | 6.22 |
| GROUP 3 | 16.39 | 6.22 |
| GROUP 4 | 16.49 | 6.22 |
| GROUP 5 | 16.76 | 6.22 |

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service; 4-Wheel Dump; & Oil Distributor

GROUP 2 - Tandem

GROUP 3 - Tractor-Trailer Combination: Fuel; Pole Trailer; Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man

GROUP 4 - 5 Axles & Over; & Asphalt Oiler Spraybar Man When Operated From Cab

GROUP 5 - Belly Dump; End Dump; Articulated Dump; Heavy Duty Equipment; Low Boy; & Truck Mechanic

TEAM0697A 09/01/2000

| | Rates | Fringes |
|--|-------|---------|
| BELMONT, JEFFERSON (North to Short Creek) & MONROE COUNTIES: | | |

TRUCK DRIVERS:

| | | |
|--|-------|-------|
| GROUP 1 - Pickup | 18.75 | 6.275 |
| GROUP 2 - Flatbed Material; Dump & Semi-Dump | 18.80 | 6.275 |
| GROUP 3 - Tank (Straight & Semi) | 18.83 | 6.275 |

GROUP 4 - Semi-Tractor Trailer 18.85 6.275

GROUP 5 - Pole Trailer 18.95 6.275

GROUP 6 - Agitator & Mixer (Up
to 5 cu. yds.) 19.03 6.275

GROUP 7 - Euclid; Dumpster;
Turnarocker; Ross Carrier; &
Athey Wagon 19.08 6.275

GROUP 8 - Agitator & Mixer (Over
5 cu. yds.) 19.11 6.275

GROUP 9 - Lowboy Trailer; Winch;
Fork & Distributor (Front &
Back End); & Truck Crane 19.38 6.275

GROUP 10 - A-Frame 19.45 6.275

GROUP 11 - Mechanic 19.48 6.275

TEAM0908A 05/18/1997

Rates Fringes

ALLEN, AUGLAIZE & HANCOCK (From the southern boundary of the city
of Findlay to the southern boundary of Hancock County) COUNTIES:

TRUCK DRIVERS:

Lowboy 17.45 3.57+a

FOOTNOTE:

a. \$61.00 per week

WELDERS - Receive rate prescribed for craft performing operation
to which welding is incidental.
=====

Unlisted classifications needed for work not included within
the scope of the classifications listed may be added after
award only as provided in the labor standards contract clauses
(29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.
END OF GENERAL DECISION

GENERAL DECISION OH020029 01/17/03 OH29
General Decision Number OH020029

Superseded General Decision No. OH010029

State: Ohio

Construction Type:
BUILDING

County(ies):

| | | |
|-----------|------------|------------|
| ADAMS | HANCOCK | OTTAWA |
| ALLEN | HARRISON | PERRY |
| ASHLAND | HIGHLAND | PICKAWAY |
| AUGLAIZE | HOCKING | PIKE |
| BELMONT | HOLMES | PREBLE |
| BROWN | HURON | RICHLAND |
| BUTLER | JACKSON | ROSS |
| CLERMONT | JEFFERSON | SANDUSKY |
| CLINTON | KNOX | SCIOTO |
| COSHOCTON | LICKING | SENECA |
| CRAWFORD | MADISON | TUSCARAWAS |
| DELAWARE | MIAMI | VINTON |
| ERIE | MONROE | WARREN |
| FAIRFIELD | MONTGOMERY | WASHINGTON |
| FAYETTE | MORGAN | WAYNE |
| FRANKLIN | MORROW | WOOD |
| GREENE | MUSKINGUM | WYANDOT |
| GUERNSEY | NOBLE | |

BUILDING CONSTRUCTION PROJECTS (Does not include single family
homes and apartments up to and including four (4) stories)

| Modification Number | Publication Date |
|---------------------|------------------|
| 0 | 03/01/2002 |
| 1 | 03/22/2002 |
| 2 | 04/05/2002 |
| 3 | 05/03/2002 |
| 4 | 06/21/2002 |
| 5 | 07/05/2002 |
| 6 | 08/09/2002 |
| 7 | 09/13/2002 |
| 8 | 10/04/2002 |
| 9 | 11/15/2002 |
| 10 | 12/13/2002 |
| 11 | 01/10/2003 |
| 12 | 01/17/2003 |

COUNTY(ies):

| | | |
|----------|----------|----------|
| ADAMS | HANCOCK | OTTAWA |
| ALLEN | HARRISON | PERRY |
| ASHLAND | HIGHLAND | PICKAWAY |
| AUGLAIZE | HOCKING | PIKE |
| BELMONT | HOLMES | PREBLE |
| BROWN | HURON | RICHLAND |

| | | |
|-----------|------------|------------|
| BUTLER | JACKSON | ROSS |
| CLERMONT | JEFFERSON | SANDUSKY |
| CLINTON | KNOX | SCIOTO |
| COSHOCTON | LICKING | SENECA |
| CRAWFORD | MADISON | TUSCARAWAS |
| DELAWARE | MIAMI | VINTON |
| ERIE | MONROE | WARREN |
| FAIRFIELD | MONTGOMERY | WASHINGTON |
| FAYETTE | MORGAN | WAYNE |
| FRANKLIN | MORROW | WOOD |
| GREENE | MUSKINGUM | WYANDOT |
| GUERNSEY | NOBLE | |

ASBE0002B 08/01/2002

Rates

Fringes

BELMONT, JEFFERSON & MONROE COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings and finishes to all types
of mechanical systems)

28.62

11.91

ASBE0003A 05/01/2002

Rates

Fringes

ERIE (to Sandusky city limits) & HURON COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings,
coatings & finishings to all types
of mechanical systems)

28.83

10.05

ASBE0003B 05/01/2002

Rates

Fringes

ASHLAND, COSHOCTON, HARRISON, HOLMES, RICHLAND, TUSCARAWAS &
WAYNE COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes
application of all insulating
materials, protective coverings
coatings & finishings to all types
of mechanical systems)

22.71

10.05

ASBE0008A 07/01/2002

Rates

Fringes

ADAMS, BROWN, BUTLER (Including Fairfield, Hanover, Liberty,
Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne
Townships), CLERMONT, HIGHLAND & WARREN (Including Deerfield,
Hamilton, Harlan, Salem, Union & Washington Townships) COUNTIES:

ASBESTOS WORKERS/INSULATORS (Includes

| | | |
|--|-------|------|
| application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems) | 23.07 | 7.80 |
|--|-------|------|

ASBE0041C 07/01/2002

Rates

Fringes

ALLEN COUNTY:

| | | |
|--|-------|------|
| ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems) | 23.64 | 8.51 |
|--|-------|------|

ASBE0044A 07/01/2001

Rates

Fringes

CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, ROSS & VINTON COUNTIES:

| | | |
|--|-------|------|
| ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems) | 22.28 | 7.28 |
|--|-------|------|

ASBE0045A 07/01/2002

Rates

Fringes

ERIE (City limits of Sandusky & Townships of Groton, Margaretta, Oxford & Perkins), HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES:

| | | |
|--|-------|-------|
| ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems) | 26.12 | 11.15 |
|--|-------|-------|

ASBE0079A 06/01/2002

Rates

Fringes

AUGLAIZE, BUTLER (Lemon & Madison Townships), CLINTON, GREENE,

MIAMI, MONTGOMERY, PREBLE & WARREN (Clear Creek, Franklin, Massie, Turtle Creek & Wayne Townships) COUNTIES:

| | | |
|--|-------|------|
| ASBESTOS WORKERS/INSULATORS (Includes application of all insulating materials, protective coverings, coatings & finishings to all types of mechanical systems) | 22.25 | 6.44 |
|--|-------|------|

| | Rates | Fringes |
|---|-------|---------|
| ASBE0080D 06/01/2002 | | |
| JACKSON, PIKE, SCIOTO & WASHINGTON COUNTIES: | | |
| INSULATORS/ASBESTOS WORKERS (Includes application of all insulating materials, protective coverings, coatings and finishings to all types of mechanical systems); & HAZARDOUS MATERIAL HANDLERS | 24.73 | 10.00 |
| ----- | | |
| ASBE0207I 06/01/2002 | | |
| ALLEN COUNTY: | | |
| HAZARDOUS MATERIAL HANDLERS (Includes preparation, wetting, stripping, removal, scraping, vacuuming, bagging & disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems) | 16.60 | 5.70 |
| ----- | | |
| ASBE0207N 07/01/2002 | | |
| | Rates | Fringes |
| HAZARDOUS MATERIAL HANDLERS (Includes preparation, wetting, stripping, removal, scraping, vacuuming, bagging & disposing of all insulation materials, whether they contain asbestos or not, from mechanical systems): | | |
| ADAMS, BROWN, BUTLER (Townships of Fairfield, Hanover, Liberty, Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne), CLERMONT, HIGHLAND & WARREN (Townships of Deerfield, Hamilton, Harlan, Salem, Union & Washington) COUNTIES | 17.50 | 6.25 |
| AUGLAIZE, BUTLER (Excluding Townships of Fairfield, Hanover, Liberty, Milford, Morgan, Oxford, Ripley, Ross, St. Clair, Union & Wayne), CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (Townships of Clear Creek, Franklin, Massie, Turtle Creek & Wayne) COUNTIES | 17.50 | 6.25 |
| ASHLAND, COSHOCTON, ERIE (Post Offices & Townships of: Berlin, Berlin Heights, Birmingham, Florence, Huron, Milan, Shinrock & Vermilion), HARRISON & HURON COUNTIES | 17.50 | 6.25 |
| CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, | | |

HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM,
 NOBLE, PERRY, PICKAWAY, ROSS & VINTON COUNTIES
 17.50 6.25

ERIE (Portion covered by the city limits of Sandusky, Ohio & by
 the Townships of Groton, Margaretta, Oxford & Perkins), HANCOCK,
 OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES
 20.05 5.45

HOLMES, RICHLAND, TUSCARAWAS & WAYNE COUNTIES
 14.45 3.60

 BOIL0085A 07/15/2002

| | Rates | Fringes |
|--|-------|---------|
| ALLEN, ASHLAND, AUGLAIZE, CRAWFORD, DELAWARE, ERIE, HANCOCK, HURON, KNOX, MORROW, OTTAWA, RICHLAND, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES: | | |

| | | |
|--------------|-------|-------|
| BOILERMAKERS | 26.50 | 11.70 |
|--------------|-------|-------|

BOIL0105A 09/30/2002

| | Rates | Fringes |
|---|-------|---------|
| ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HIGHLAND, HOCKING, JACKSON, LICKING, MADISON, MIAMI, MONTGOMERY, MORGAN, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, PREBLE, ROSS, SCIOTO, VINTON & WARREN COUNTIES: | | |

| | | |
|--------------|-------|-------|
| BOILERMAKERS | 28.30 | 12.15 |
|--------------|-------|-------|

BOIL0154B 01/01/2003

| | Rates | Fringes |
|-------------------|-------|---------|
| JEFFERSON COUNTY: | | |

| | | |
|--------------|-------|-------|
| BOILERMAKERS | 28.27 | 13.35 |
|--------------|-------|-------|

BOIL0667B 10/01/2002

| | Rates | Fringes |
|--|-------|---------|
| BELMONT, MONROE & WASHINGTON COUNTIES: | | |

| | | |
|--------------|-------|-------|
| BOILERMAKERS | 27.30 | 12.79 |
|--------------|-------|-------|

BOIL0744A 01/01/2003

| | Rates | Fringes |
|---|-------|---------|
| COSHOCTON, HARRISON, HOLMES, TUSCARAWAS & WAYNE COUNTIES: | | |

| | | |
|--------------|-------|-------|
| BOILERMAKERS | 28.10 | 12.86 |
|--------------|-------|-------|

BROH0003A 07/01/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy, Freedom,
Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty,
Henry, Washington, Weston, Milton, Jackson & Grand Rapids)

| | | |
|---------------------------|-------|------|
| BRICKLAYERS & STONEMASONS | 25.20 | 8.70 |
|---------------------------|-------|------|

BROH0003D 07/01/1998

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

WOOD COUNTY (Townships of Perrysburg, Ross, Lake, Troy, Freedom,
Montgomery, Webster, Center, Portage, Middleton, Plain, Liberty,
Henry, Washington, Weston, Milton, Jackson & Grand Rapids)

| | | |
|---|-------|------|
| MARBLE SETTERS; TERRAZZO WORKERS; & TILE SETTERS | 21.91 | 4.92 |
| FINISHERS | 18.88 | 3.85 |

BROH0005E 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ASHLAND, ERIE, HURON & RICHLAND COUNTIES:

| | | |
|---|-------|------|
| MARBLE SETTERS' FINISHERS; TILE SETTERS' FINISHERS | 22.89 | 7.10 |
| TERRAZZO WORKERS' FINISHERS | 22.92 | 7.10 |

BROH0006A 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

TUSCARAWAS COUNTY:

| | | |
|---|-------|------|
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS | 22.43 | 8.05 |
|---|-------|------|

BROH0006B 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

TUSCARAWAS COUNTY:

| | | |
|---|-------|------|
| MARBLE SETTERS, TERRAZZO WORKERS, TERRAZZO GRINDERS & TILE SETTERS | 20.30 | 6.45 |
| FINISHERS | 17.90 | 6.45 |

BROH0006D 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

TUSCARAWAS COUNTY:

| | | |
|---------------------------|-------|------|
| CEMENT MASONS; PLASTERERS | 22.43 | 8.05 |
|---------------------------|-------|------|

BROH0007A 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

WAYNE COUNTY:

| | | |
|-------------|-------|------|
| BRICKLAYERS | 25.77 | 7.73 |
|-------------|-------|------|

BROH0007D 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| WAYNE COUNTY (Milton & Chippewa Townships): | | |
| MARBLE SETTERS' FINISHERS; TERRAZZO WORKERS' FINISHERS; & TILE SETTERS' FINISHERS | 20.90 | 5.48 |

BROH0007F 06/01/2002

| | Rates | Fringes |
|--|-------|---------|
| WAYNE COUNTY (Milton & Chippewa Townships): | | |
| MARBLE SETTERS; STONEMASONS; & TERRAZZO WORKERS | 24.50 | 5.48 |
| TILE SETTERS | 23.90 | 5.48 |

BROH0008F 06/01/1998

| | Rates | Fringes |
|---|-------|---------|
| COSHOCOTON, HARRISON, HOLMES, JEFFERSON & WAYNE (Excluding Milton & Chippewa Townships) COUNTIES: | | |
| MARBLE SETTERS' FINISHERS & TERRAZZO WORKERS' FINISHERS | 19.82 | 3.86 |
| COSHOCOTON, HOLMES, JEFFERSON (Townships of Mt. Pleasant, Warren, Salineville & the Village of Dillonvale), & WAYNE (Excluding Milton & Chippewa Townships) COUNTIES: | | |
| TILE SETTERS' FINISHERS | 19.82 | 3.86 |

BROH0009A 07/01/2000

| | Rates | Fringes |
|--|-------|---------|
| BELMONT, JEFFERSON (Warren & Mt. Pleasant Townships & the Village of Dillonvale) & MONROE COUNTIES: | | |
| BRICKLAYERS & STONEMASONS | 22.20 | 6.08 |
| MARBLE SETTERS; TERRAZZO WORKERS; & TILE SETTERS | 21.17 | 4.98 |

BROH0010A 06/15/2002

| | Rates | Fringes |
|---|-------|---------|
| JEFFERSON COUNTY (Brush Creek & Saline Townships): | | |
| BRICKLAYERS; CAULKERS; CLEANERS; CEMENT BLOCKLAYERS; MARBLE SETTERS; POINTERS; STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS | 22.10 | 7.00 |

| | | |
|--------------------------|-------|------|
| TILE SETTERS' FINISHERS: | 20.00 | 7.00 |
|--------------------------|-------|------|

BROH0014A 07/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

HARRISON & JEFFERSON (Except Mt. Pleasant, Warren, Brush Creek,
Saline & Salineville Townships & the Village of Dillonvale)
COUNTIES:

| | | |
|--------------------------|-------|------|
| BRICKLAYERS; STONEMASONS | 21.13 | 9.05 |
| TILE SETTERS | 20.61 | 9.05 |
| TILE SETTERS' FINISHERS | 17.61 | 9.05 |

BROH0015A 06/01/1999

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

NOBLE (Brookfield, Noble, Center, Sharon, Olive, Enoch, Stock,
Jackson, Jefferson & Elk Townships) & WASHINGTON COUNTIES:

BRICKLAYERS; BLOCKLAYERS; CAULKERS;
CLEANERS; MARBLE SETTERS; POINTERS;
STONEMASONS; TERRAZZO WORKERS; &
TILE SETTERS

| | | |
|--|-------|------|
| | 21.55 | 4.98 |
|--|-------|------|

BROH0018A 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN, BUTLER, CLERMONT, PREBLE (Gasper, Dixon, Israel, Lanier,
Somers & Gratis Townships) & WARREN COUNTIES:

BRICKLAYERS; CAULKERS; CLEANERS;
POINTERS; & STONEMASONS

| | | |
|--|-------|------|
| | 22.96 | 7.39 |
|--|-------|------|

REFRACTORY

| | | |
|--|-------|------|
| | 23.46 | 7.39 |
|--|-------|------|

BROH0018D 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN, BUTLER, CLERMONT, PREBLE (Gasper, Dixon, Israel, Lanier,
Somers & Gratis Townships) & WARREN COUNTIES:

MARBLE SETTERS,
TERRAZZO WORKERS & TILE SETTERS

| | | |
|--|-------|------|
| | 24.42 | 6.34 |
|--|-------|------|

BROH0018F 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

ADAMS, BROWN, BUTLER, CLERMONT, FAYETTE, JACKSON, PIKE, ROSS,
SCIOTO, VINTON, WARREN & WASHINGTON COUNTIES:

MARBLE, TERRAZZO & TILE FINISHERS:
Finishers

| | | |
|--|-------|------|
| | 19.98 | 6.34 |
|--|-------|------|

Marble Sanders, Polishers, Waxers,
& Sawyers

| | | |
|--|-------|------|
| | 20.05 | 6.34 |
|--|-------|------|

| | | |
|--|-------|---------|
| Terrazzo Base Grinders (While operating base grinding machine) | 20.40 | 6.34 |
| ----- | | |
| BROH0022A 11/01/2001 | | |
| | Rates | Fringes |
| CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson, Monroe, Harrison, Twin, Jefferson & Washington Townships) | | |
| COUNTIES: | | |
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; STONEMASONS | 22.50 | 6.84 |
| ----- | | |
| BROH0022B 11/01/2001 | | |
| | Rates | Fringes |
| CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE (Jackson, Monroe, Harrison, Twin, Jefferson & Washington Townships) | | |
| COUNTIES: | | |
| MARBLE SETTERS; TERRAZZO WORKERS; & TILE SETTERS | 22.38 | 4.52 |
| ----- | | |
| BROH0022C 05/01/2001 | | |
| | Rates | Fringes |
| AUGLAIZE, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| FINISHERS | 20.64 | 1.50 |
| BASE MACHINE | 21.14 | 1.50 |
| ----- | | |
| BROH0035A 01/01/1999 | | |
| | Rates | Fringes |
| ALLEN & AUGLAIZE COUNTIES: | | |
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; STONEMASONS; & TILE SETTERS | 19.80 | 5.12 |
| ----- | | |
| BROH0039A 06/01/2001 | | |
| | Rates | Fringes |
| ADAMS & SCIOTO COUNTIES: | | |
| BRICKLAYERS; CAULKERS; CLEANERS; MARBLE SETTERS; POINTERS; | | |
| STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS | 22.50 | 8.55 |
| ----- | | |
| BROH0040A 05/01/2002 | | |
| | Rates | Fringes |

ASHLAND, CRAWFORD, HOLMES, MORROW, RICHLAND, WAYNE (Except Milton & Chippewa Townships) & WYANDOT (Except Crawford, Ridge, Richland & Tymochtee Townships) COUNTIES:

| | | |
|---|-------|------|
| BRICKLAYERS; BLOCKLAYERS; CAULKERS; CLEANERS; MARBLE SETTERS; POINTERS; STONEMASONS; TERRAZZO WORKERS & TILE SETTERS | 22.95 | 8.25 |
|---|-------|------|

BROH0040B 05/01/2002

| | | |
|---|-------|---------|
| | Rates | Fringes |
| HOLMES & WAYNE (Except Milton & Chippewa Townships) COUNTIES: | | |
| CEMENT MASONS & PLASTERERS | 22.95 | 8.25 |

BROH0044A 01/01/1998

| | | |
|---|-------|---------|
| | Rates | Fringes |
| COSHOCTON, FAIRFIELD, KNOX & LICKING COUNTIES: | | |
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS | 18.80 | 6.10 |
| GUERNSEY, HOCKING, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo, Seneca & Wayne Townships) & PERRY COUNTIES: | | |

| | | |
|---|-------|------|
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS | 18.80 | 6.10 |
|---|-------|------|

COSHOCTON COUNTY:

| | | |
|----------------------------|-------|------|
| CEMENT MASONS & PLASTERERS | 18.80 | 6.10 |
|----------------------------|-------|------|

GUERNSEY COUNTY:

| | | |
|----------------------------|-------|------|
| CEMENT MASONS & PLASTERERS | 18.80 | 6.10 |
|----------------------------|-------|------|

BROH0045A 06/01/2000

| | | |
|---|-------|---------|
| | Rates | Fringes |
| FAYETTE, JACKSON, PIKE, ROSS & VINTON COUNTIES: | | |

| | | |
|--|-------|------|
| BRICKLAYERS; CAULKERS; CEMENT MASONS; CLEANERS; POINTERS; & STONEMASONS | 21.25 | 7.10 |
|--|-------|------|

BROH0046A 06/01/2002

| | | |
|---|-------|---------|
| | Rates | Fringes |
| ERIE, HANCOCK, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of | | |

Sandusky:

BRICKLAYERS; CAULKERS; CEMENT BLOCK
LAYERS; CLEANERS; GUNNITE MASONS;
MARBLE SETTERS; POINTERS; REFRACTORY

| | | |
|--|-------|------|
| MASONS; STONEMASONS; TERRAZZO WORKERS; & TILE SETTERS | 22.58 | 9.60 |
|--|-------|------|

ERIE, HURON, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of Sandusky:

| | | |
|----------------------------|-------|------|
| CEMENT MASONS & PLASTERERS | 22.58 | 9.60 |
|----------------------------|-------|------|

HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD (Perry & Bloom Townships) & WYANDOT (Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES & the islands of Lake Erie north of Sandusky:

| | | |
|---|-------|------|
| MARBLE SETTERS' FINISHERS; TERRAZZO WORKERS' FINISHERS; & TILE SETTERS' FINISHERS | 18.93 | 9.60 |
|---|-------|------|

BROH0055A 06/01/1999

| | | |
|--|-------|---------|
| | Rates | Fringes |
| DELAWARE, FRANKLIN, MADISON & PICKAWAY COUNTIES: | | |

| | | |
|---|-------|------|
| BRICKLAYERS; CAULKERS; CLEANERS; POINTERS; & STONEMASONS | 21.00 | 6.35 |
| RUBBLE WORK | 20.17 | 6.35 |

BROH0055B 06/01/1997

| | | |
|--|-------|---------|
| | Rates | Fringes |
| COSHOCTON, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING, JACKSON, KNOX, LICKING, MADISON, MORGAN, MUSKINGUM, NOBLE (Beaver, Buffalo, Seneca & Wayne Townships), PERRY, PICKAWAY, PIKE, ROSS & VINTON COUNTIES: | | |

| | | |
|---------------------------------|-------|------|
| MARBLE SETTERS | 21.53 | 4.55 |
| TERRAZZO WORKERS & TILE SETTERS | 19.60 | 4.50 |

BROH0055D 06/01/1997

| | | |
|---|-------|---------|
| | Rates | Fringes |
| BELMONT, DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, HOCKING, KNOX, LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES: | | |

| | | |
|-----------------------------------|-------|------|
| MARBLE, TERRAZZO & TILE FINISHERS | 18.50 | 1.05 |
|-----------------------------------|-------|------|

CARP0069A 05/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

TUSCARAWAS & WAYNE COUNTIES:

| | | |
|-------------------------------|-------|------|
| CARPENTERS; SOFT FLOOR LAYERS | 20.31 | 7.95 |
|-------------------------------|-------|------|

| | | |
|--|-------|---------|
| CARP0069G 05/01/2002 | | |
| | Rates | Fringes |
| COSHOCKTON, HOLMES, KNOX & MORROW COUNTIES: | | |
| CARPENTERS; SOFT FLOOR LAYERS | 20.02 | 7.43 |
| ----- | | |
| CARP0171A 05/01/2002 | | |
| | Rates | Fringes |
| BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES: | | |
| CARPENTERS & SOFT FLOOR LAYERS: | 20.12 | 9.02 |
| ----- | | |
| CARP0200A 06/01/2000 | | |
| | Rates | Fringes |
| DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON, MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES: | | |
| CARPENTERS; & SOFT FLOOR LAYERS | 20.51 | 5.68 |
| PILEDRIVERMEN | 21.19 | 5.68 |
| ----- | | |
| CARP0248A 07/01/2001 | | |
| | Rates | Fringes |
| WOOD COUNTY: | | |
| CARPENTERS & LATHERS | 23.90 | 9.95 |
| ----- | | |
| CARP0248B 07/01/2001 | | |
| | Rates | Fringes |
| HANCOCK & WOOD COUNTIES: | | |
| SOFT FLOOR LAYERS | 22.21 | 10.95 |
| ----- | | |
| CARP0248C 07/01/2001 | | |
| | Rates | Fringes |
| HANCOCK COUNTY: | | |
| CARPENTERS & LATHERS | 20.05 | 9.95 |
| ----- | | |
| CARP0356A 06/01/2000 | | |
| | Rates | Fringes |
| HOCKING, VINTON & WASHINGTON COUNTIES: | | |
| CARPENTERS | 20.31 | 8.03 |
| PILEDRIVERS | 20.61 | 8.03 |
| SOFT FLOOR LAYERS | 19.91 | 8.03 |
| ----- | | |
| CARP0372A 07/01/2001 | | |

| | Rates | Fringes |
|--|-------|---------|
| ALLEN & AUGLAIZE COUNTIES: | | |
| CARPENTERS & LATHERS | 20.05 | 8.95 |
| ----- | | |
| CARP0437A 06/01/2000 | | |
| | Rates | Fringes |
| ADAMS, FAYETTE, HIGHLAND, JACKSON, PIKE, ROSS & SCIOTO COUNTIES: | | |
| CARPENTERS; PILEDRIVERMEN & SOFT FLOOR LAYERS | 22.18 | 8.48 |
| ----- | | |
| CARP0735B 05/01/2002 | | |
| | Rates | Fringes |
| ASHLAND, ERIE, HURON & RICHLAND COUNTIES: | | |
| CARPENTERS; SOFT FLOOR LAYERS | 19.67 | 7.67 |
| ----- | | |
| CARP1066A 09/01/1999 | | |
| | Rates | Fringes |
| BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES: | | |
| MILLWRIGHTS | 21.90 | 7.92 |
| ----- | | |
| CARP1066B 09/01/1999 | | |
| | Rates | Fringes |
| GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| MILLWRIGHTS | 21.90 | 9.02 |
| ----- | | |
| CARP1241A 06/01/2000 | | |
| | Rates | Fringes |
| DELAWARE, FAIRFIELD, FRANKLIN, GUERNSEY, LICKING, MADISON, MORGAN, MUSKINGUM, NOBLE, PERRY & PICKAWAY COUNTIES: | | |
| MILLWRIGHTS | 21.27 | 9.95 |
| ----- | | |
| CARP1311B 06/01/2000 | | |
| | Rates | Fringes |
| BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES: | | |
| CARPENTERS & PILEDRIVERMEN: | | |
| (Does not include Walls & Ceiling Work) | 21.35 | 4.77 |
| ----- | | |
| CARP1311D 06/01/1998 | | |
| | Rates | Fringes |
| GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |

CARPENTERS (Does not include Acoustic
Ceiling Installers, Drywall Hangers
or Metal Stud Framers) &
PILEDRIVERMEN

20.60

4.84

CARP1311G 07/01/2000

Rates

Fringes

BROWN, BUTLER, CLERMONT, CLINTON & WARREN COUNTIES:

CARPENTERS & LATHERS:

(Walls & Ceiling Work only)

21.10

4.98

CARP1311O 08/15/1998

Rates

Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

SOFT FLOOR LAYERS

18.05

4.64

CARP1311P 06/01/1998

Rates

Fringes

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

ACOUSTIC CEILING INSTALLERS; DRYWALL
HANGERS; LATHERS; & METAL STUD
FRAMERS

19.80

4.64

CARP1393A 07/01/2000

Rates

Fringes

CRAWFORD, HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES:

MILLWRIGHTS & PILEDRIVERMEN

21.61

11.07

CARP1393D 07/01/2000

Rates

Fringes

ALLEN, AUGLAIZE & WYANDOT COUNTIES:

MILLWRIGHTS & PILEDRIVERMEN

20.68

9.32

CARP1519B 06/01/2000

Rates

Fringes

ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PIKE, ROSS, SCIOTO &
VINTON COUNTIES:

MILLWRIGHTS

22.51

10.24

CARP1755C 06/01/2001

Rates

Fringes

WASHINGTON COUNTY:

| | | |
|---|-------|---------|
| MILLWRIGHTS | 24.39 | 10.16 |
| ----- | | |
| CARP1871A 05/01/2002 | | |
| | Rates | Fringes |
| ASHLAND, ERIE, HURON & RICHLAND COUNTIES: | | |
| MILLWRIGHTS | 24.75 | 8.74 |
| ----- | | |
| CARP1871B 05/01/2002 | | |
| | Rates | Fringes |
| ASHLAND, ERIE, HURON & RICHLAND COUNTIES: | | |
| PILEDRIVERMEN | 24.75 | 8.74 |
| ----- | | |
| CARP1871C 05/01/2002 | | |
| | Rates | Fringes |
| BELMONT, HARRISON, & MONROE COUNTIES: | | |
| PILEDRIVERMEN | 22.78 | 8.97 |
| ----- | | |
| CARP1871D 05/01/2002 | | |
| | Rates | Fringes |
| COSHOCOTON, HOLMES, KNOX & MORROW COUNTIES: | | |
| PILEDRIVERMEN | 19.53 | 8.61 |
| ----- | | |
| CARP1871E 05/01/2002 | | |
| | Rates | Fringes |
| BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES: | | |
| MILLWRIGHTS | 22.78 | 8.97 |
| ----- | | |
| CARP1871K 05/01/2002 | | |
| | Rates | Fringes |
| COSHOCOTON, HOLMES, KNOX & MORROW COUNTIES: | | |
| MILLWRIGHTS | 19.53 | 8.61 |
| ----- | | |
| CARP1871L 05/01/2002 | | |
| | Rates | Fringes |
| TUSCARAWAS & WAYNE COUNTIES: | | |
| MILLWRIGHTS | 20.00 | 8.74 |
| ----- | | |
| CARP1871M 05/01/2002 | | |
| | Rates | Fringes |
| TUSCARAWAS & WAYNE COUNTIES: | | |

| | | |
|--|-------|---------|
| PILEDRIVERMEN | 20.00 | 8.74 |
| ----- | | |
| CARP2235D 01/01/1999 | | |
| | Rates | Fringes |
| JEFFERSON COUNTY: | | |
| PILEDRIVERMEN | 22.00 | 7.85 |
| ----- | | |
| CARP2239A 07/01/2001 | | |
| | Rates | Fringes |
| CRAWFORD, OTTAWA, SANDUSKY, SENECA & WYANDOT COUNTIES: | | |
| CARPENTERS | 20.82 | 9.95 |
| ----- | | |
| ELEC0008A 05/28/2001 | | |
| | Rates | Fringes |
| HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES: | | |
| ELECTRICIANS: | | |
| Electricians | 28.98 | 9.30 |
| Cable Splicers | 30.43 | 9.37 |
| ----- | | |
| ELEC0032A 12/01/2002 | | |
| | Rates | Fringes |
| ALLEN, AUGLAIZE & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Ridgeland, Ridge & Salem Townships) COUNTIES: | | |
| ELECTRICIANS | 24.87 | 8.18 |
| ----- | | |
| ELEC0032B 06/01/1998 | | |
| | Rates | Fringes |
| ALLEN & WYANDOT (Crawford, Jackson, Marseilles, Mifflin, Richland, Ridge & Salem Townships) COUNTIES: | | |
| LINE CONSTRUCTION: | | |
| Lineman | 22.52 | 4.31+a |
| Equipment Operator | 20.27 | 4.12+a |
| Groundman Truck Driver | 14.43 | 3.63+a |
| FOOTNOTE: | | |
| a. Half a day's Paid Holiday: The last 4 hours of the workday prior to Christmas or New Year's Day | | |
| ----- | | |
| ELEC0071C 06/03/2002 | | |
| | Rates | Fringes |
| ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HIGHLAND, HOCKING, JACKSON (Coal, Jackson, | | |

Liberty, Milton, Washington & Wellston Townships), KNOX, LICKING, MADISON, MONROE, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, Peepee, Perry & Seal Townships), RICHLAND, ROSS, TUSCARAWAS (Auburn, Bucks, Clay, Jefferson, Oxford, Perry, Salem, Rush, Washington & York Townships), VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships) & WASHINGTON COUNTIES:

LINE CONSTRUCTION:

| | | |
|-------------------------|-------|------|
| Linemen; Cable Splicers | 26.00 | 7.26 |
| Equipment Operators | 23.40 | 6.78 |
| Groundmen | 16.90 | 5.58 |

ELEC0071D 01/01/2001

Rates

Fringes

AUGLAIZE, CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0071M 01/01/2001

Rates

Fringes

BELMONT, HARRISON, HOLMES, JEFFERSON & WAYNE COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0071N 01/01/2001

Rates

Fringes

BROWN, BUTLER, CLERMONT & WARREN COUNTIES:

LINE CONSTRUCTION:

| | | |
|--------------------|-------|------|
| Lineman | 24.10 | 6.66 |
| Equipment Operator | 21.69 | 6.21 |
| Groundman | 15.67 | 5.10 |

ELEC0082A 06/03/2002

Rates

Fringes

CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE & WARREN (Wayne, Clear Creek & Franklin Townships) COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 25.29 | 8.44 |
|--------------|-------|------|

ELEC0129F 09/01/2001

Rates

Fringes

ERIE & HURON (Lyne, Ridgefield, Norwalk, Townsend, Wakeman,

Sherman, Peru, Bronson, Hartland, Clarksfield, Norwich,
Greenfield, Fairfield, Fitchville & New London Townships)
COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 27.25 | 6.85 |
|--------------|-------|------|

ELEC0141C 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BELMONT COUNTY:

| | | |
|----------------|-------|-------|
| ELECTRICIANS | 24.58 | 10.70 |
| CABLE SPLICERS | 24.83 | 10.70 |

ELEC0212A 05/28/2001

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN & CLERMONT COUNTIES:

| | | |
|--------------|-------|------|
| ELECTRICIANS | 23.53 | 7.20 |
|--------------|-------|------|

ELEC0212B 11/01/2000

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN & CLERMONT COUNTIES:

SOUND COMMUNICATIONS:

| | | |
|--------------|-------|-------|
| Installer | 18.00 | 3.475 |
| Cable Puller | 9.00 | 2.64 |

ELEC0212D 01/18/1998

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

BROWN & CLERMONT COUNTIES:

ELECTRICAL SIGN & LUMINOUS
BUILDING INSTALLER

| | |
|-------|--------|
| 12.88 | 1.03+a |
|-------|--------|

FOOTNOTE:

- a. 9 Paid Holidays: New Year's Day, Memorial Day, 4th of
July, Labor Day, Thanksgiving Day, the Day after
Thanksgiving, Christmas Eve, Christmas Day & New Year's Eve
-

ELEC0245A 09/02/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
|--|-------|---------|

HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES:

LINE CONSTRUCTION:

| | | |
|---------------|-------|--------|
| Cable Splicer | 32.67 | 9.14+a |
| Lineman | 28.41 | 8.27+a |

| | | |
|------------------|-------|--------|
| Heli-arc Welding | 28.71 | 8.33+a |
| Technician | 27.56 | 8.11+a |

| | | |
|------------------------|-------|--------|
| Operator - Class 1 | 22.73 | 7.10+a |
| Operator - Class 2 | 19.89 | 6.53+a |
| Groundman/Truck Driver | 16.99 | 5.92+a |

FOOTNOTE:

a. 6 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; & Christmas Day providing the employee has been on the payroll 25 calendar days prior to the holiday, and works the scheduled workdays preceding & following such holiday (except excused absences)

ELEC0246A 12/02/2001

| | Rates | Fringes |
|--------------------------------|-------|---------|
| HARRISON & JEFFERSON COUNTIES: | | |
| ELECTRICIANS | 25.25 | 13.00+a |

FOOTNOTE:

a. 1 1/2 Paid Holidays: The last scheduled workday prior to Christmas & 4 hours on Good Friday

ELEC0306D 06/03/2002

| | Rates | Fringes |
|--|-------|---------|
| WAYNE (Baughman, Canaan, Chester, Chippewa, Congress, Green, Milton & Wayne Townships) COUNTY: | | |

ELECTRICIANS:

| | | |
|---------------|-------|------|
| Electrician | 27.75 | 8.65 |
| Cable Splicer | 29.97 | 8.75 |

ELEC0317G 06/01/1998

| | Rates | Fringes |
|--|-------|---------|
| ADAMS, JACKSON (Bloomfield, Franklin, Hamilton, Lick, Jefferson, Scioto & Madison Townships), PIKE (Camp Creek, Marion, Newton, Scioto, Sunfish & Union Townships), SCIOTO & VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships) COUNTIES: | | |

LINE CONSTRUCTION:

| | | |
|---------------------|-------|------|
| Linemen | 21.42 | 8.40 |
| Cable Splicers | 23.66 | 8.48 |
| Equipment Operators | 17.14 | 8.25 |
| Groundmen | 13.92 | 8.14 |

ELEC0540A 06/03/2002

| | Rates | Fringes |
|---|-------|---------|
| HOLMES, TUSCARAWAS (North of Auburn Clay, Rush & York Townships), & WAYNE (South of Baughman, Chester, Green & Wayne Townships) COUNTIES: | | |

| | | |
|--------------|-------|-------|
| ELECTRICIANS | 24.56 | 11.70 |
|--------------|-------|-------|

ELEC0540C 06/05/1997

| | Rates | Fringes |
|--|-------|---------|
| TUSCARAWAS COUNTY (North of Auburn, Clay, Rush & York Townships) | | |

LINE CONSTRUCTION:

| | | |
|---------------------------|-------|------|
| Lineman; & Cable Splicer | 21.86 | 9.01 |
| Line Equipment Operator | 19.02 | 8.69 |
| Groundman; & Truck Driver | 14.65 | 8.18 |

ELEC0575A 01/01/2003

| | Rates | Fringes |
|--|-------|---------|
| ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON (Bloomfield, Franklin, Hamilton, Jefferson, Lick, Madison, Scioto, Coal, Jackson, Liberty, Milton & Washington Townships), PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE (Beaver, Benton, Jackson, Mifflin, Pebble, PeePee, Perry, Seal, Camp Creek, Newton, Scioto, Sunfish, Union & Marion Townships), ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships) COUNTIES: | | |

| | | |
|--------------|-------|------|
| ELECTRICIANS | 26.80 | 7.33 |
|--------------|-------|------|

ELEC0575D 11/27/2000

| | Rates | Fringes |
|---|-------|---------|
| ADAMS, FAYETTE, HIGHLAND, HOCKING, JACKSON, PICKAWAY (Deer Creek, Perry, Pickaway, Salt Creek & Wayne Townships), PIKE, ROSS, SCIOTO & VINTON (Clinton, Eagle, Elk, Harrison, Jackson, Richland & Swan Townships) COUNTIES: | | |

SOUND AND COMMUNICATIONS:

| | | |
|--------------|-------|------|
| Installer | 18.18 | 4.18 |
| Cable Puller | 9.46 | 3.91 |

ELEC0648A 09/02/2002

| | Rates | Fringes |
|--|-------|---------|
| BUTLER & WARREN (Deerfield, Hamilton, Harlan, Massie, Salem, Turtle Creek, Union & Washington Townships) COUNTIES: | | |

ELECTRICIANS:

| | | |
|----------------|-------|------|
| Electricians | 23.53 | 6.63 |
| Cable Splicers | 24.03 | 6.65 |

ELEC0683A 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto, Walnut & Washington Townships) COUNTIES: | | |

ELECTRICIANS:

| | | |
|--------------|-------|------|
| Electricians | 26.20 | 7.59 |
|--------------|-------|------|

| | | |
|---|-------|---------|
| Cable Splicers | 26.80 | 7.60 |
| ----- | | |
| ELEC0683F 11/27/2000 | | |
| | Rates | Fringes |
| DELAWARE, FAIRFIELD, FRANKLIN, MADISON & PICKAWAY (Circleville, Darby, Harrison, Jackson, Madison, Monroe, Muhlenberg, Scioto, Walnut & Washington Townships) COUNTIES: | | |
| SOUND AND COMMUNICATIONS: | | |
| Installers | 18.17 | 4.08 |
| Cable Pullers | 9.60 | 3.82 |
| ----- | | |
| ELEC0688A 12/30/2002 | | |
| | Rates | Fringes |
| ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley & Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard, Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown & Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES: | | |
| ELECTRICIANS | 25.17 | 9.29 |
| ----- | | |
| ELEC0688B 11/27/2000 | | |
| | Rates | Fringes |
| ASHLAND, CRAWFORD, HURON (Richmond, New Haven, Ripley & Greenwich Townships), KNOX (Liberty, Clinton, Union, Howard, Monroe, Middleberry, Morris, Wayne, Berlin, Pike, Brown & Jefferson Townships), MORROW, RICHLAND & WYANDOT (Sycamore, Crane, Eden, Pitt, Antrim & Tymochtee Townships) COUNTIES: | | |
| SOUND AND COMMUNICATIONS: | | |
| Installers | 18.23 | 4.05 |
| Cable Pullers | 9.65 | 3.79 |
| ----- | | |
| ELEC0867B 06/01/1998 | | |
| | Rates | Fringes |
| ERIE COUNTY: | | |
| LINE CONSTRUCTION: | | |
| Lineman; Cable Splicer; & Equipment Operator | 20.75 | 4.09 |
| Truck Driver (Winch) Groundman; & Groundman | 13.49 | 3.87 |
| ----- | | |
| ELEC0972A 06/01/2000 | | |
| | Rates | Fringes |
| MONROE, MORGAN, NOBLE, VINTON (Brown, Knox, Madison, Vinton & Wilkesville Townships) & WASHINGTON COUNTIES: | | |

ELECTRICIANS:

| | | |
|----------------|-------|-------|
| Electricians | 23.30 | 12.61 |
| Cable Splicers | 23.55 | 12.62 |

ELEC1105A 06/04/2001

| | Rates | Fringes |
|---|-------|---------|
| COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hilliar, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES: | | |

| | | |
|--------------|-------|------|
| ELECTRICIANS | 22.12 | 6.56 |
|--------------|-------|------|

ELEC1105B 11/27/2000

| | Rates | Fringes |
|---|-------|---------|
| COSHOCTON, GUERNSEY, KNOX (Jackson, Clay, Morgan, Miller, Milford, Hillard, Butler, Harrison, Pleasant & College Townships), LICKING, MUSKINGUM, PERRY & TUSCARAWAS (Auburn, York, Clay, Jefferson, Rush, Oxford, Washington, Salem, Perry & Bucks Townships) COUNTIES: | | |

SOUND AND COMMUNICATIONS:

| | | |
|--------------|-------|------|
| Installer | 17.95 | 4.40 |
| Cable Puller | 9.38 | 4.14 |

ELEV0006C 01/01/2003

| | Rates | Fringes |
|-------------------------------|-------|-----------|
| BELMONT & JEFFERSON COUNTIES: | | |
| ELEVATOR MECHANICS | 29.72 | 9.355+a+b |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day After Thanksgiving; & Christmas Day.

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; Employer contributes 6% of regular hourly rate to vacation pay credit for employee who has worked in business less than 5 years.

ELEV0011A 06/22/2002

| | Rates | Fringes |
|---|-------|---------|
| ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN COUNTIES: | | |

| | | |
|--------------------|--------|-----------|
| ELEVATOR MECHANICS | 26.255 | 7.455+a+b |
|--------------------|--------|-----------|

FOOTNOTES:

- a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day
- b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service.
-

ELEV0017A 07/01/2002

| | Rates | Fringes |
|------------------------|--------|-----------|
| ERIE & HURON COUNTIES: | | |
| ELEVATOR MECHANICS | 30.205 | 7.455+a+b |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day After Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0037A 07/16/2000

| | Rates | Fringes |
|--|--------|-----------|
| ASHLAND, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, HOLMES, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS, TUSCARAWAS & VINTON COUNTIES: | | |
| ELEVATOR MECHANICS | 25.335 | 7.195+a+b |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0044A 07/31/2000

| | Rates | Fringes |
|--|--------|-----------|
| ALLEN, AUGLAIZE, HANCOCK, OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT COUNTIES: | | |
| ELEVATOR MECHANICS | 28.385 | 7.195+a+b |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; The Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 yrs.; 6% for less than 5 yrs.

ELEV0045A 07/09/2000

| | Rates | Fringes |
|--------------------|--------|-----------|
| WAYNE COUNTY: | | |
| ELEVATOR MECHANICS | 27.305 | 7.195+a+b |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; Day after Thanksgiving; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years.

ELEV0048C 09/28/1998

| | Rates | Fringes |
|----------------------------------|--------|----------|
| JACKSON, PIKE & SCIOTO COUNTIES: | | |
| ELEVATOR MECHANICS | 22.795 | 6.12+a+b |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; Independence Day; Labor Day; Thanksgiving Day; the Day after Thanksgiving Day; & Christmas Day

b. Employer contributes 8% of regular hourly rate to vacation pay credit for employee who has worked in business more than 5 years; 6% for less than 5 years' service

ENGI0018A 05/01/2002

| | Rates | Fringes |
|--|-------|---------|
| ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK, HARRISON, HIGHLAND, HOCKING, HOLMES, JACKSON, JEFFERSON, KNOX, LICKING, MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN, WASHINGTON, WAYNE & WYANDOT COUNTIES: | | |

POWER EQUIPMENT OPERATORS:

| | | |
|---------|-------|------|
| GROUP 1 | 26.09 | 7.10 |
| GROUP 2 | 25.84 | 7.10 |
| GROUP 3 | 25.59 | 7.10 |
| GROUP 4 | 25.34 | 7.10 |
| GROUP 5 | 25.22 | 7.10 |

| | | |
|---------|-------|------|
| GROUP 6 | 24.18 | 7.10 |
| GROUP 7 | 23.00 | 7.10 |
| GROUP 8 | 17.84 | 7.10 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump with Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Forklift(rough terrain with winch/hoist) Gradall; Helicopter Operator & Helicopter Winch Operator (Hoisting Builders Materials); Hoe; Hoist (Two or More Drums); Horizontal Directional Drill; Hydraulic Gantry (Lift System); Laser Finishing Machine; Laser Screed and Like Equipment; Slab or Panel Jack; Locomotive; Maintenance Engineer (Mechanic); Mixer, Paving (Multiple Drum); Mobile Concrete Pump With Boom; Panelboard; Pile Driver; Power Shovel; Prentice Loader; Rail Tamper with automatic lifting & align device; Rotary Drill used on Caisson Work for Foundations & Substructure work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; C.M.I. Type Equipment; Concrete Grinder/Planer; Endloader; Hydro Milling Machine; Kolman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Pettibone-Rail Equipment; Power Grader; Power Scoop; Power Scraper; Push Cat; & Vermeer Type Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader with or without Attachments; Concrete Pump without Booms & with 5" System; Highway Drillers with Integral Power; Hoist (One Drum); Boiler (15 lbs. pressure & over); ForkLift (except Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Insertter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Gunit Machine; Pavement Breaker (Hydraulic or

Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor (Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All; Concrete Pump without Booms with 4" or Smaller System; Self-Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15 lbs. pressure); Directional Drill "Locator"; Masonry Fork Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Pump (Under 4" discharge); Signal Person; & Submersible Pump (Under 4" discharge)

ENGI0018B 05/01/2002

| | Rates | Fringes |
|---|-------|---------|
| ERIE & HURON COUNTIES: | | |
| POWER EQUIPMENT OPERATORS: | | |
| Crane (Boom & Jib 300' & Over) | 29.17 | 7.06 |
| Crane (Boom & Jib 200' & Over, Up to 299'); Master Mechanic | 28.92 | 7.06 |
| GROUP 1 | 28.42 | 7.06 |
| GROUP 2 | 28.27 | 7.06 |
| GROUP 3 | 27.12 | 7.06 |
| GROUP 4 | 26.34 | 7.06 |
| GROUP 5 | 26.02 | 7.06 |
| GROUP 6 | 19.24 | 7.06 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - A-Frame; Boiler or Compressor Operator, Hydraulic Pump & Power Pacs Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Gradall; Helicopter Operator & Helicopter Winch Operator (When Hoisting Builders Materials); Hoe; Hoist (Two or More Drums); Lift Slab or Panel Jack Operator; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump, with Boom; Panelboard; Pile Driver; Power Shovel; Robotic Equipment; Operator/Mechanic; Rotary Drill used on Caisson Work for Foundations & Substructure Work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 2 - Asphalt Paver; Bulldozer; C.M.I. Type Equipment; End Loader; Kohlman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Power Grader; Power Scoop; Power Scraper; &

Push Cat; Horizontal Directional Drill Locator; Horizontal & Directional Drill Operator

GROUP 3 - Air Compressor (Pressurizing Shafts & Tunnels); Asphalt Roller; Fork Lift; Hoist (One Drum); House Elevator (Except Automatic Call Button-controlled); Man Lift; Mud Jack; Power Boiler (Over 15 lbs. Pressure); Pressure Grouting; Pump Operator (Installing Well Points or other type of Dewatering system); Trencher (24" & under); & Utility Operator

GROUP 4 - Compressor; Conveyor; Generator; Guniting Machine; Concrete Mixer (Capacity more than one bag); Concrete Mixer (One Bag capacity, Side Loader); Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; & Roller

GROUP 5 - Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap and Curing Machine; Cleaning Machine (decontamination included); Clefplane; Concrete Spreader Machine; Crusher; Deck Hand; Drum Fireman (In Asphalt Plant); Farm-type Tractor (Pulling attachment); Finishing Machine; Fork Lift (Masonry Work); Form Trencher High Pressure Pump (Over 1/2" discharge); Hydro Seeder; Pump (4" and Over discharge); Submersible Pump (4" and Over discharge); Self-propelled Power Spreader; Self-propelled Sub-grader; Tire Repairman; Tractor (Pulling Sheeps Foot Roller or Grader); & Vibratory Compactor (With Integral Power)

GROUP 6 - Inboard & Outboard Motor Boat Launch; Light Plant Operator; Oiler; Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper; Power Boiler (Less than 15 lbs. Pressure); Pump (Under 4" discharge); Submersible Pump (Under 4" discharge); Signalperson; Bob Cat-type and/or Skid Steer Loader; Grade Checker; & VAC/ALL

ENGI0018G 05/01/2002

| | Rates | Fringes |
|----------------------------|-------|---------|
| WOOD COUNTY: | | |
| POWER EQUIPMENT OPERATORS: | | |
| GROUP 1 | 26.84 | 7.10 |
| GROUP 2 | 26.59 | 7.10 |
| GROUP 3 | 26.34 | 7.10 |
| GROUP 4 | 26.09 | 7.10 |
| GROUP 5 | 25.97 | 7.10 |
| GROUP 6 | 24.93 | 7.10 |
| GROUP 7 | 23.75 | 7.10 |
| GROUP 8 | 18.59 | 7.10 |

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1 - Boom & Jib 250' & Over

GROUP 2 - Boom & Jib Over 180' through 249'

GROUP 3 - Boom & Jib 150' through 180'; & Master Mechanic

GROUP 4 - Barrier Moving Machine; Boiler or Compressor Mounted on Crane (Piggy-Back Operation); Boom Truck; Cableway; Cherry Picker; Combination Concrete Mixer & Tower; Concrete Pump with Booms; Crane; Derrick; Dragline; Dredge (Dipper, Clam or Suction) 3 Man Crew; Elevating Grader or Euclid Loader; Floating Equipment; Forklift (rough terrain with winch/hoist) Gradall; Helicopter Operator (Hoisting Builders Materials); Helicopter Winch Operator (Hoisting Building Materials); Hoe; Hoist (Two or More Drums); Horizontal Directional Drill; Hydraulic Gantry (Lift System); Laser Finishing Machine; Laser Screed and Like Equipment; Lift Slab or Panel Jack; Locomotive; Maintenance Engineer (Mechanic); Mixer Paving (Multiple Drum); Mobile Concrete Pump (With Boom); Panelboard; Pile Driver; Power Shovel; Prentice Loader; Concrete Pump with Boom; Rail Tamper with automatic lifting & align device; Rotary Drill used on Caisson Work for Foundations & Substructure work; Side Boom; Slip Form Paver; Straddle Carrier; Trench Machine (Over 24" Wide); & Tug Boat

GROUP 5 - Asphalt Paver; Bobcat-type and/or Skid Steer Loader with Hoe Attachment Greater than 7,000 lbs.; Bulldozer; Power Grader; C.M.I. Type Equipment; Concrete Grinder/Planer; Endloader; Push Cats; Hydro Milling Machine; Kolman Type Loader (Dirt Loading); Lead Greaseman; Mucking Machine; Pettibone-Rail Equipment; Power Scoop; Power Scraper; & Vermeer Type Concrete Saw

GROUP 6 - A-Frame; Air Compressor (Pressurizing Shafts or Tunnels); Asphalt Roller; Bobcat-type and/or Skid Steer Loader with or without Attachments; Highway Drillers with Integral Power; Hoist (One Drum); Boiler (15 lbs. pressure & over); Concrete Pump without Booms with 5" System; ForkLift (except Masonry); House Elevator (except those automatic call button controlled); Man Lift; Mud Jack; Pressure Grouting; Pump (Installing or Operating Well Points or other Type of Dewatering Systems); Pump (4" and over Discharge); Submersible Pump (4" and over Discharge); Switch & Tie Tamper w/o lifting & aligning device; Trench Machine (24" & under); Utility; Railroad Tie Inserter/Remover; & Rotovator (Lime-Soil Stabilizer)

GROUP 7 - Compressor; Concrete Mixer (Capacity more than one bag); Concrete Mixer (one bag capacity, side loader); Conveyor; Generator; Guniting Machine; Pavement Breaker (Hydraulic or Cable); Post Driver; Post Hole Digger; Road Widening Trencher; Roller (except Asphalt); Ballast Relocator; Backfiller & Tamper; Bar & Joint Installing Machine; Batch Plant; Bullfloat; Burlap & Curing Machine; Clefplane; Concrete Spreader; Crusher; Deckhand; Drum Fireperson (In Asphalt Plant); Farm-type Tractor (Pulling Attachments); Finishing Machine; Form Trencher; Hydro Seeder; Pressure Pump (over 1/2" discharge); Self-propelled Sub-Grader; Tire Repairman; Tractor (Pulling Sheep Foot Roller or Grader); Vibratory Compactor (with Integral Power); Vac/All;

Concrete Pump without Booms & With 4" System or Smaller; Self-
Propelled Power Spreader; & Shotcrete Machine

GROUP 8 - Allen Screed Paver(concrete); Boiler (Less than 15
lbs. pressure); Directional Drill "Locator"; Masonry Fork
Lift; Inboard & Outboard Motor Boat Launch; Light Plant; Oiler;
Power Driven Heater (Oil Fired); Power Scrubber; Power Sweeper;
Pump (Under 4" discharge); Signal Person; & Submersible Pump
(Under 4" discharge)

IRON0017A 08/01/2002

| | Rates | Fringes |
|--|-------|---------|
| ERIE (Eastern 2/3) & HURON (East of a line drawn from the north border through Monroeville & Willard) COUNTIES: | | |

IRONWORKERS:

| | | |
|--------------------------------------|-------|-------|
| Ornamental; Reinforcing & Structural | 25.55 | 13.63 |
|--------------------------------------|-------|-------|

IRON0044A 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES: | | |

IRONWORKERS:

| | | |
|------------------------|-------|-------|
| Ornamental; Structural | 23.45 | 10.88 |
| Fence Erector | 21.11 | 10.88 |

IRON0055A 07/01/2002

| | Rates | Fringes |
|---|-------|---------|
| CRAWFORD (Area between lines drawn from where Hwy #598 & #30 meet through North Liberty to the northern border & from said Hwy junction point due west to the border), ERIE (Western one- third), HANCOCK, HURON (West of a line drawn from the northern border through Monroeville & Willard), OTTAWA, SANDUSKY, SENECA, WOOD & WYANDOT (North of Rte. #30) COUNTIES: | | |

IRONWORKERS:

| | | |
|---|-------|-------|
| Fence Erector | 18.43 | 12.02 |
| Pre-Engineered Metal Building | 19.43 | 12.41 |
| Furnaces & Kilns (Temperature units over 125 degrees Fahrenheit) | 25.15 | 12.41 |
| All Other Work | 24.15 | 12.41 |

IRON0147B 06/01/2002

| | Rates | Fringes |
|-------------------------------|-------|---------|
| ALLEN COUNTY (Northern half): | | |

| | | |
|-------------|-------|-------|
| IRONWORKERS | 21.85 | 10.92 |
|-------------|-------|-------|

IRON0172A 06/01/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

COSHOCTON (West of a line beginning at the northwest county line going through Walhonding & Tunnel Hill to the southern county line), CRAWFORD (South of Rte. #30), DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HIGHLAND (Eastern one-fifth), HOCKING, JACKSON (Northern half), KNOX, LICKING, MADISON, MORROW, MUSKINGUM (West of a line starting at Adams Mill going to Adamsville & going from Adamsville through Blue Rock to the southern border), PERRY, PICKAWAY, PIKE, ROSS, VINTON & WYANDOT (South of Rte. #30) COUNTIES:

| | | |
|-------------|-------|-------|
| IRONWORKERS | 23.90 | 10.41 |
|-------------|-------|-------|

IRON0290A 06/01/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

ALLEN (Southern half), AUGLAIZE, BUTLER (North of a line drawn from east to the west county line going through Oxford, Darrrtown & Woodsdale), CLINTON (Excluding south of a line drawn from Blanchester to Lynchburg), GREENE, HIGHLAND (Inside lines drawn from Marshall to Lynchburg & from the northern county line through East Monroe to Marshall), MIAMI, MONTGOMERY, PREBLE & WARREN (Excluding south of a line drawn from Blanchester through Morrow to the west county line) COUNTIES:

IRONWORKERS

Within 25 mile radius of

| | | |
|--------------------------|-------|-------|
| L.U. #290 Office, Dayton | 23.10 | 10.75 |
|--------------------------|-------|-------|

Beyond 25 mile radius of

| | | |
|--------------------------|-------|-------|
| L.U. #290 Office, Dayton | 23.25 | 10.75 |
|--------------------------|-------|-------|

IRON0372A 06/01/2002

| | Rates | Fringes |
|--|-------|---------|
|--|-------|---------|

ADAMS (Western Part), BROWN, BUTLER (Southern Part), CLERMONT, CLINTON (South of a line drawn from Blanchester to Lynchburg), HIGHLAND (Excluding eastern one-fifth & portion of county inside lines drawn from Marshall to Lynchburg from the northern county line through E. Monroe to Marshall) & WARREN (South of a line drawn from Blanchester through Morrow to the west county line) COUNTIES:

IRONWORKERS, Reinforcing:

Up to & including 30-mile radius

| | | |
|-------------------------------|-------|-------|
| of Hamilton County Courthouse | 22.71 | 10.47 |
|-------------------------------|-------|-------|

Beyond 30-mile radius of Hamilton

| | | |
|-------------------|-------|-------|
| County Courthouse | 22.96 | 10.47 |
|-------------------|-------|-------|

IRON0549C 07/01/2002

Rates Fringes

BELMONT, GUERNSEY, HARRISON, JEFFERSON, MONROE & MUSKINGUM
(Excluding portion west of a line starting at Adams Mill going

to Adamsville & going from Adamsville through Blue Rock to the
south border) COUNTIES:

| | | |
|-------------|-------|-------|
| IRONWORKERS | 24.78 | 12.41 |
|-------------|-------|-------|

IRON0550A 05/01/2002

Rates Fringes

ASHLAND, COSHOCTON (E. of a line beginning at NW Co. line going
through Walhonding & Tunnel Hill to the South Co. line), HOLMES,
HURON (S. of Old Route #224), RICHLAND, TUSCARAWAS & WAYNE
COUNTIES:

IRONWORKERS:

| | | |
|--|-------|-------|
| Ornamental; Reinforcing; & Structural | 21.26 | 11.42 |
| Fence Erector | 17.53 | 11.42 |

IRON0769C 06/01/2002

Rates Fringes

ADAMS (Eastern Half), JACKSON (Southern Half) & SCIOTO COUNTIES:

IRONWORKERS:

| | | |
|--------|-------|-------|
| ZONE 1 | 24.92 | 11.14 |
| ZONE 2 | 25.32 | 11.14 |
| ZONE 3 | 27.32 | 11.14 |

ZONE 1 - Up to 10 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 2 - 10 to 50 mile radius of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

ZONE 3 - 50 mile radius & over of Union Hall, Ashland, Ky.,
1643 Greenup Ave.

IRON0787B 06/01/2002

Rates Fringes

MORGAN, NOBLE & WASHINGTON COUNTIES:

| | | |
|-------------|-------|-------|
| IRONWORKERS | 24.33 | 10.90 |
|-------------|-------|-------|

LABO0083A 06/01/2002

Rates Fringes

ADAMS, HIGHLAND, JACKSON, PIKE, ROSS, SCIOTO & VINTON COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 24.47 | 4.40 |
| GROUP 2 | 24.72 | 4.40 |

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender;
Skid Steer Loader; & Hazardous Waste Removal (Level B)
Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A)
Personal Protective Equipment (PPE)

LABO0265A 06/01/2002

| | Rates | Fringes |
|-------------------------------------|-------|---------|
| BROWN, CLERMONT & CLINTON COUNTIES: | | |
| LABORERS: | | |
| GROUP 1 | 20.00 | 4.65 |
| GROUP 2 | 20.10 | 4.65 |
| GROUP 3 | 20.15 | 4.65 |
| GROUP 4 | 20.20 | 4.65 |
| GROUP 5 | 20.50 | 4.65 |
| GROUP 6 | 20.75 | 4.65 |

LABORER CLASSIFICATIONS

GROUP 1 - Building and Common Laborer; Asbestos Removal; Cement
Mason Tender; Hand-Operated Mechanical Mule; Mechanical
Mule; Mechanical Sweeper; Signaler; Flagger; Wrecking
Laborer

GROUP 2 - Bottom Man; Pipe Layer

GROUP 3 - Skid Steer; Burning Torch Operator; Jack Hammer;
Air Spade; Chipping Hammer; Mechanical and Air Tamper
Operator; Mechanical Concrete Buggy; Power Operated
Mechanical Mule; Concrete Pump Hose Man; Vibrator Man;
CERCLA Trained Hazardous Material Removal-Levels A,B,C

GROUP 4 - Bottom Jack Hammer Man

GROUP 5 - Tunnel Laborer

GROUP 6 - Gunnite Nozzle Operator

LABO0265C 06/01/1997

| | Rates | Fringes |
|-------------------------------------|-------|---------|
| BROWN, CLERMONT & CLINTON COUNTIES: | | |
| PLASTERERS' TENDERS: | | |
| Tender | 18.30 | 3.90 |
| Mixer Pump Operator | 18.45 | 3.90 |

LABO0265G 06/01/2002

| | Rates | Fringes |
|-------------------------------------|-------|---------|
| BROWN, CLERMONT & CLINTON COUNTIES: | | |
| LABORERS, Mason Tenders | 21.65 | 4.65 |

LABO0329A 05/01/2002

Rates

Fringes

ALLEN & AUGLAIZE COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.40 | 4.40 |
| GROUP 2 | 19.55 | 4.40 |
| GROUP 3 | 19.70 | 4.40 |
| GROUP 4 | 19.90 | 4.40 |

LABORER CLASSIFICATION

GROUP 1 - Building; Signal Person; Power Wheelbarrow or Power Buggy; Removal of Asbestos & Hazardous Waste (Levels C & D)

GROUP 2 - Vibrator; Cement Finisher Tender; Cement Raker; Asphalt Raker; Tamper & Packer; Pump Man Under 4" Discharge; Caisson; Cofferdam; Tunnel Spiker Railroad (By Hand); Pot Tender; Torch Man; Demolition; Machine Driven Tools (Gas, Electric, Air)

GROUP 3 - Plaster Tender; Mortar Mixer; Cylinder, Shaft; Sewer, Water Conduit; Gas, Oil Pipeline, except Mainlines; Sewer Bottom Man; Sewer Pipe Layer; Manhole Builder; Blaster Tender; Wagon Drill Tender; Jack Hammer; Gunnite Operator; Mucker (Tunnel & Caisson) Free Air; Miner (Tunnel & Caisson) Free Air; Sand Blaster; Blaster-Powder Man; Wagon Drill/Operator; & Removal of Toxic & Hazardous Waste (Levels A & B)

GROUP 4 - Mason Tender

LABO0423A 06/01/2002

Rates

Fringes

FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, LICKING, MADISON & PICKAWAY COUNTIES:

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.98 | 4.40 |
| GROUP 2 | 19.29 | 4.40 |
| GROUP 3 | 19.60 | 4.40 |
| GROUP 4 | 19.91 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - General laborers; Carpenter tender; Cathodic protection; Cleaning debris; Cleaning of all material; General clean-up including vacuum cleaning, scraping and cleaning of walls and floors; Landscape; Installation and removal of fencing; Sod layers; All portable heaters; Flagman; Loading and unloading of all trucks; Handling and conveying all materials; Washing of all windows; Conveyor belt; Jurisdiction over the use of all water pumps up to and

including 3 inch intake

GROUP 2 - Skid steer specialist; Concrete specialist; Brick tender; Stone mason tender; Plaster tender; Mortar mixer and; operator; Cement mason tender; Construction specialist;

All scaffold builders; Bush hammering; Jack hammer operator; Air or electrical pneumatic tool operator; Power driven tools; Power buggy operators; Pouring and placement of all concrete; Power wheelbarrow operator; Asphalt and blacktop rakers; Wall wrecker and bar man on demolition; Sand blasting and chipping; Welders on demolitions; Grade checkers; A person on a bucket pouring concrete; Guniting nozzle man; Wagon and churn drill operator; Concrete saw operator; Brush feeders on pulverizers; Pipe layers; Pavers set in sand; Bottom man; Laser gun; Burners; Sand blasting of concrete; Vibrator man; Steward; Signal man; Caisson; Caisson bottom man; Pile drivers; Asbestos and lead abatement laborers; Hazardous waste level B

GROUP 3 - Hazardous waste level C

GROUP 4 - Hazardous waste level D

LABO0480A 06/01/2002

| | Rates | Fringes |
|--|-------|---------|
| ERIE, HURON, OTTAWA & SANDUSKY COUNTIES: | | |

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 21.91 | 4.40 |
| GROUP 2 | 22.11 | 4.40 |
| GROUP 3 | 22.51 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction Laborer; Carpenter Tender; Concrete Handler; Finisher Tender; Guard Rail Erector; Railroad Spur Work; Utility Construction Laborer; Signal Person; & Flagperson

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on Demolition Work; Caisson Worker; Cofferdam Worker; Creosote Worker; Form Setter; Hod Carrier; Mason Tender; Mortar Mixer; Mucker; Pipelayer; Plasterer Tender; Powder Man & Dynamite Blaster; Scaffold Builder; Stonemason Tender; Swinging Scaffold; Tunnel Laborer; & Wet & Dry Vacuum Devices

GROUP 3 - Caustic Lime Worker; Dry Sandblast; Guniting Operator; Radioactive Atmosphere Worker (Special wearing apparel required); Asbestos Removal; & Hazardous Waste Removal

LABO0500A 07/01/2002

| | Rates | Fringes |
|--------------|-------|---------|
| WOOD COUNTY: | | |

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.30 | 6.97 |
| GROUP 2 | 19.50 | 6.97 |
| GROUP 3 | 19.70 | 6.97 |
| GROUP 4 | 19.80 | 6.97 |
| GROUP 5 | 9.78 | 6.97 |
| GROUP 6 | 12.80 | 6.97 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalperson; Flagperson;
Carpenter Tender; Utility Construction; Guard Rail Erector; Deep
Cleaning; & Hazardous Waste (Level A)

GROUP 2 - Finisher Tender; Concrete Handler; Bottom Man; Scaffold
Builder; Tunnel Laborer; Pipelayer; Air & Power Driven Tools;
Burner on Demolition Work; Swinging Scaffold; Mucker; Caisson
Worker; Cofferdam Worker; Powder Man & Dynamite Blaster;
Creosote Worker; Mortar Mixer; Form Setter; Mason Tender;
Plasterer Tender; Hod Carrier; Stonemason Tender & Hazardous
Waste (Level B)

GROUP 3 - Gunite Operator & Hazardous Waste (Level C)

GROUP 4 - Hazardous Waste (Level D)

GROUP 5 - Parking & Landscaping

GROUP 6 - Installation of Fencing

FIREBRICK WORK OVER 50 FEET, EXPEDITERS, HOT PAY, BOTTOM MAN &
TOP MAN - \$.75 PER HOUR OVER GROUP 1.

LABO0530A 06/01/2002

| | Rates | Fringes |
|--|-------|---------|
| GUERNSEY, MUSKINGUM, NOBLE & PERRY COUNTIES: | | |

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 18.57 | 4.40 |
| GROUP 2 | 18.82 | 4.40 |
| GROUP 3 | 19.07 | 4.40 |
| GROUP 4 | 20.07 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Carpenter Tender; Tree
Planter; Landscape Tree Trimmer; & Asbestos Removal, Hazardous
Waste Removal

GROUP 2 - Air & Machine Driven Tool Operator; Asphalt Plant
Aggremeter Operator; Asphalt Plant Mixer Man; Car Pusher and
Tunnel Laborer; Caulker; Cement Handler; Concrete Puddler
(Behind Mixer); Curb Cutter & Setter; Cutting with Burning

Torch; Dumpman; Hand Spiker (Railroad); Jackhammer Operator;
 Mucker (Tunnel & Caisson); Pipelayer; Proportioning Plant
 Operator; Pump Man; Road Form Setter; Sewer Bottom Man;
 Sheeting & Shoring Man; Vibrator Operator; & Yarnier &
 Wrench Man

GROUP 3 - Mason Tender; Mortar Mixer Man; Brick Slinger;

Stone Mason Tender; Plaster Tender; Lock Tender; Brick
 Dropper

GROUP 4 - Powder Man or Blaster; & Toxic/Hazardous Waste

LABO0534A 06/01/2002

| | Rates | Fringes |
|---------------------------|-------|---------|
| BUTLER & WARREN COUNTIES: | | |
| LABORERS: | | |
| GROUP 1 | 20.14 | 4.40 |
| GROUP 2 | 20.24 | 4.40 |
| GROUP 3 | 20.34 | 4.40 |
| GROUP 4 | 20.47 | 4.40 |
| GROUP 5 | 20.72 | 4.40 |
| GROUP 6 | 20.49 | 4.40 |
| GROUP 7 | 20.74 | 4.40 |
| GROUP 8 | 20.63 | 4.40 |
| GROUP 9 | 20.59 | 4.40 |
| GROUP 10 | 20.84 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Common Laborer; Rough Rider - 4" Small
 Pump; Portable Generator - Bobcat to Cleanup

GROUP 2 - Asphalt Raker; Chisel; Hand Air Pump; Hand Air
 Tamper; Handling & Laying Precast Concrete Floor & Deck; Power
 Tamper Operator; Smoother; Switch Assemblies; & Tamper

GROUP 3 - Concrete Specialist; Skid Steer (to perform
 laborers' duties); Jack Hammer and Concrete Buster; Barco
 Tamper Man; Power Georgia Buggy Man; Power Sweeper Man;
 Vibrator; Concrete Saw Man; Rail Spikers; Acetylene Burner
 Pipe Layers; Bos'N or Cradleman; Bottom Man; Chipping Hammer
 Grade Checker; Form Cleanout and Blowout Man; Red Concrete
 Coloring Man (Electrical Safety)

GROUP 4 - Mason Tender; Mortar Mixer & Scaffold Builder

GROUP 5 - Forklift for Mason; Work involving Refractory
 Materials, including Demolition; Asbestos Removal & Hazardous
 Waste Removal (Handling, control, removal, abatement,
 encapsulation or disposal of asbestos & hazardous waste)

GROUP 6 - Gunnite Man; Sand Blaster Concrete Pump & Hose Man;
 & Blast Trac

GROUP 7 - Miner & Mucker, Free Air

GROUP 8 - Powderman or Blaster Above Ground

GROUP 9 - Mortar or Gypsum Machineman

GROUP 10 - Powderman Underground; & Scuba Diver

LABO0574A 05/01/2002

| | Rates | Fringes |
|------------------|-------|---------|
| DELAWARE COUNTY: | | |
| LABORERS: | | |
| GROUP 1 | 18.98 | 4.40 |
| GROUP 2 | 19.29 | 4.40 |
| GROUP 3 | 19.60 | 4.40 |
| GROUP 4 | 19.91 | 4.40 |

HANCOCK, SENECA & WYANDOT COUNTIES:

| | | |
|-----------|-------|------|
| LABORERS: | | |
| GROUP 1 | 20.55 | 4.40 |
| GROUP 2 | 20.85 | 4.40 |
| GROUP 3 | 21.05 | 4.40 |
| GROUP 4 | 21.25 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1: Building & Construction; Signalman; Flagman;
Carpenter Tender; Finisher Tender; Concrete Handler; Utility
Construction; Guard Rail Erector; Fence Installer; Caulker; &
Hazardous Waste (Level A)

GROUP 2: Bottom Man; Scaffold; Mucker; Caisson Worker; Powder
Man; Dynamite Blaster; Creosote Worker; Mortar Mixer; Form
Setter; Plasterer Tender; Hod Carrier; Stonemason Tender &
Hazardous Waste (Level B)

GROUP 3: Mason Tender; Guniting Operator & Hazardous Waste
(Level C)

GROUP 4: Hazardous Waste (Level D)

LABO0639A 06/01/2002

| | Rates | Fringes |
|---------------------------------------|-------|---------|
| MONROE, MORGAN & WASHINGTON COUNTIES: | | |
| LABORERS: | | |
| GROUP 1 | 23.02 | 4.40 |
| GROUP 2 | 23.37 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Asphalt Plant Aggremeter; Asphalt Plant Miner Man; Brick Slinger; Building & Construction; Car Pusher & Tunnel Laborer; Carpenter Tender; Cement Handler; Concrete Puddler Behind Mixer; Concrete Smoother; Drum Fireperson; Dump Man Batch Truck; Flagperson; Landscape Planter; Proportioning Plant Operator; Rammer Man; & Spreader Box Man

GROUP 2 - Air, Gas or Machine Driven Tool; Asphalt Raker; Tamper, Forker, Shoveler or Smoother; Caulker, Yarnier & Wrenchman; Cement Mason Tender; Curb Setter & Cutter; Form Setter; Grade Checker; Jackhammer Operator; Mason Tender; Mortar Mixer; Mucker (Tunnel & Caisson); Pipelayer; Pump Man (4" & Under); Sewer Bottom Man; Sheeting & Shoring Man; Stonemason Tender; Vibrator Operator; Plasterer Tender; Hand Spiker (Railroad); Concrete & Georgia Buggy Pusher; Deep Trench Work (Over 6'); Cutting & Burning Torch; Hydro-Water Jet Operator; Brick Dropper; Lock Tender; Miner (Tunnel & Caisson); Powderman or Blaster; & Signalperson

LABO0809A 07/01/2002

| | Rates | Fringes |
|--------------------------------|-------|---------|
| HARRISON & JEFFERSON COUNTIES: | | |
| LABORERS: | | |
| GROUP 1 | 19.82 | 5.40 |
| GROUP 2 | 19.99 | 5.40 |
| GROUP 3 | 20.02 | 5.40 |
| GROUP 4 | 20.06 | 5.40 |
| GROUP 5 | 20.15 | 5.40 |
| GROUP 6 | 20.32 | 5.40 |
| GROUP 7 | 20.35 | 5.40 |
| GROUP 8 | 20.50 | 5.40 |
| GROUP 9 | 20.65 | 5.40 |
| GROUP 10 | 20.72 | 5.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Carpenter Tender; Flagperson; General; Landscaper; & Hazardous Waste Level D

GROUP 2 - Brick Handler; Tender for Brick Mason, Plasterer & Stonemason; Mortarman for Mason & Plasterer; Man Mixing Cement for Cement Finisher; Scaffold Builder; Mortar Mixer Machine Operator; Fork Lift; Hazardous Waste Level C; Fork Truck; Walk Behind Concrete Saw; Form Setter; Epoxy; Paving Brick; Dry Block; Precast, Lagging, Decorate Blocks & Sand Stone

GROUP 3 - Concrete Buster; Jack Hammer; Air Spade; Chipping Hammer; Air Tamper; Vibrator; Power Buggy; Concrete Saw; Power Saw; Sandblaster; Acetylene Burner; Scuba Diver; Panel Cleaning Machine Operator; Signalman; Power Driven Tool; Air Pump; Air Blow Pipe; Pipelayer & Tender Working in Ditch or Tunnel; Hand Spiker on Railroad & Handling Concrete for Test or Working with

Tar, Acid, Creosote & Asbestos, 2" & Under; Skid Steers;
Hazardous Waste Level B; Fire Hose; High Pressure Water Hose;
Super Sucker; Vacuum Truck & Hose; Core Driller; Drilling For
Anchor Bolts; & Dowel Rods & Pins

GROUP 4 - Ditch, Trench, Caisson & Coffor Over 6' deep, Open
Top

GROUP 5 - Work Pertaining to or in connection with & Repair of

Stove, Blast Furnace, Basic Oxygen Process Furnace, Basic
Oxygen Furnace, Steeple & Stack, Annealing Process Furnace,
Kiln, Soaking Pit, Coke Battery on Industrial Work; Hazardous
Waste Level A; Ram Cutter; Boiler on Industrial Work & Anything
pertaining to, such as Expansion Joints, etc.; Demolition of
Stack 50' to 100'; Tunnel; Mucker, including Caisson & Coffor,
Horizontal & Underground

GROUP 6 - Demolition of Stack 100' to 150'

GROUP 7 - Miner, including Caisson & Coffor, Horizontal or
Underground, Mucking Machine Operator

GROUP 8 - Blasterman & Tender; Bellman & Lancer; Bottom Man in
Blast Furnace, Stack, Stove & Dust Catcher; Mud Man & Working
with Carbon Brick & Handling Bottom Block on Blast Furnace,
Stack, Stove & Dust Catcher

GROUP 9 - Gunnite Nozzleman & Gunnite Machine Operator - Grout
Nozzleman & Grout Machine Operator

GROUP 10 - Demolition of Stack over 150'

LABO1015A 05/01/2002

| | Rates | Fringes |
|---------------|-------|---------|
| WAYNE COUNTY: | | |
| LABORERS: | | |
| GROUP 1 | 19.30 | 4.40 |
| GROUP 2 | 19.60 | 4.40 |
| GROUP 3 | 19.90 | 4.40 |
| GROUP 4 | 19.90 | 4.40 |

LABORER CLASSIFICATIONS

GROUP 1 - Building & Construction; Signalman; Flagman;
Carpenter Tender; Finisher Tender; Concrete Handler; Utility
Construction; Guard Rail Erector; & Hazardous Waste Removal
(Level D) Personal Protective Equipment (PPE)

GROUP 2 - Bottom Man; Scaffold Builder; Tunnel; Pipe Layer; Air
& Power Driven Tool; Burner on Demolition Work; Swinging
Scaffold; Mucker; Caisson Worker; Cofferdam Worker; Powder Man
& Dynamite Blaster; Creosote Worker; Form Setter; Plasterer
Tender; Hod Carrier; All Confined Space Work; Furnaces; Pickel

Tubs; Acid Pits & Hazardous Waste Removal (Level C) Personal Protective Equipment (PPE)

GROUP 3 - Mason Tender; Mortar Mixer; Stonemason Tender; Skid, Steer Loader; & Hazardous Waste Removal (Level B) Personal Protective Equipment (PPE)

GROUP 4 - Gunnite Operator; & Hazardous Waste Removal (Level A) Personal Protective Equipment (PPE)

| | | |
|----------------------|-------|---------|
| LABO1149B 07/01/2002 | | |
| | Rates | Fringes |
| BELMONT COUNTY: | | |
| GROUP 1 | 16.77 | 8.00 |
| GROUP 2 | 17.07 | 8.00 |
| GROUP 3 | 17.42 | 8.00 |

LABORER CLASSIFICATIONS

GROUP 1 - Unskilled; Carpenter Tender; Flagperson; Demolition Worker; Fire Watch; & Landscaper

GROUP 2 - Powderman on Concrete Pump Hose; Semi-skilled Laborer; Scaffold Builder; Grade Checker; Signalperson; Tenders of: Brickmasons, Plasterers, Cement Finishers & Stonemasons; Mortar Mixer; Operators of: Jackhammers, Forklifts, Bobcats, Vibrators, Tampers, Pavement Busters, Chipping & Peening Hammers, Air Siphon & Air Pumps, Concrete Saws, Power Saws, Chain Saws, Motorized Buggies, Post Hole Diggers, Lance and/or Water Blasters & Batch House Scales; Riprap Finisher; Concrete Specialist; Concrete Technician; Sheeter & Shorer; Asphalt Raker; Persons Working with: Mastic Asphalt, Acid Brick, Acid & Creosote; Nozzleman for Gunnite or Sandblasting; Demolition Worker; Ride or Walk Roller Tamper; Deep Ditch Vertical & Manholes 6 ft. or more; Scaffolding Work over 50 ft. (inside or out); Asbestos Abatement; Hazardous Waste Worker; & Environmental Worker

GROUP 3 - Blacksmith; Powderman; Air Track Operator; Pipe Layer; & Burner

| | | |
|--|-------|---------|
| LABO1216A 06/01/2002 | | |
| | Rates | Fringes |
| ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND COUNTIES: | | |
| LABORERS: | | |
| GROUP 1 | 21.22 | 4.00 |
| GROUP 2 | 21.42 | 4.00 |
| GROUP 3 | 22.72 | 4.00 |

LABORER CLASSIFICATIONS

GROUP 1 - Asbestos Handler; Building & Construction; Carpenter

Tender; Concrete Handler; Finisher Tender; Flagperson; Guard
 Rail Erector; Hazardous Waste (Levels C & D); Signalperson; &
 Utility Construction Laborer

GROUP 2 - Air & Power Driven Tool; Bottom Man; Burner on
 Demolition Work; Caisson Worker; Cofferdam Worker; Creosote
 Worker; Form Setter; Guniting Operator; Hazardous Waste (Levels A
 & B); Hod Carrier; Mucker; Pipe Layer; Plasterer Tender; Powder
 Man & Dynamite Blaster; Swinging Scaffold; & Tunnel Laborer

GROUP 3 - Mason Tender; Mortar Mixer; Scaffold Builder; &
 Stonemason Tender

LABO1410A 06/01/2002

Greene, Miami, Montgomery & Preble Counties: Rates Fringes

LABORERS:

| | | |
|---------|-------|------|
| GROUP 1 | 12.93 | 4.60 |
| GROUP 2 | 15.93 | 4.60 |
| GROUP 3 | 18.45 | 4.60 |
| GROUP 4 | 20.15 | 4.60 |
| GROUP 5 | 20.65 | 4.60 |

LABORER CLASSIFICATIONS

GROUP 1 - Signalman

GROUP 2 - Yardman-Landscaping; Sewer Jet; Unloading of Furniture
 and Fixtures; Final Clean-Up

GROUP 3 - Building & Construction; Railroad; Asbestos &
 Hazardous Waste (Levels A, B, C & D); Concrete Crew; Form
 Setter; Pipelayer; Bottom Man; Burner (Cutting Torch);
 All Machine & Power Driven Tools; Sandblaster

GROUP 4 - Mason Tender for Bricklayers; Flexicore; Firebrick
 Tender (Blast Furnaces, Soaking Pits, Stoves & Stacks);
 Plasterer Tenders

GROUP 5 - Tender Operator

LABO1410B 05/01/2002

Greene, Miami, Montgomery & Preble Counties: Rates Fringes

LABORERS:

| | | |
|---|-------|------|
| Tender for: Bricklayers, Mason & Flexicore | 20.15 | 4.40 |
| Tender Operator | 20.65 | 4.40 |

PAIN0006U 06/01/2002

Rates Fringes

ERIE, HANCOCK, HURON, OTTAWA (Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genoa), SANDUSKY, SENECA & WYANDOT COUNTIES:

PAINTERS:

| | | |
|------------------|-------|------|
| Brush & Roller | 20.22 | 6.38 |
| Paperhanging | 20.47 | 6.38 |
| Structural Steel | 20.67 | 6.38 |
| Drywall | 20.72 | 6.38 |

WINTER REPAINT: Between December 1 to March 31 - 90% JR

\$.50 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

While working swingstage, boatswain chair, needle beam and horizontal cable.

While operating sprayguns, sandblasting, cobblasting, high pressure waterblasting (4000 psi), and for automatic taping and finishing tools for drywall.

\$1.00 PER HOUR SHALL BE ADDED TO THE RATE OF PAY FOR THE CLASSIFICATION OF WORK:

For the application of catalized epoxy, including latex epoxy that is demed hazardous, lead abatement, or for work or material where special precautions beyond normal work duties must be taken.

For working on stacks, tanks, and towers over 40 feet in height.

PAIN0006W 07/01/2001

Rates Fringes

OTTAWA (Excluding Allen, Bay, Bono, Catawba Island, Clay Center, Curtice, Danbury, Eagle Beach, Elliston, Elmore, Erie, Fishback, Gem Beach & Genova) & WOOD COUNTIES:

PAINTERS:

NEW COMMERCIAL BUILDING WORK:

| | | |
|---------|-------|------|
| GROUP 1 | 22.09 | 7.20 |
| GROUP 2 | 22.34 | 7.20 |
| GROUP 3 | 22.59 | 7.20 |
| GROUP 4 | 22.84 | 7.20 |
| GROUP 5 | 22.79 | 7.20 |
| GROUP 6 | 23.09 | 7.20 |

REPAINT IS 90% OF JR

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Paperhanger; Drywall Taper & Finisher; Spray

& Sandblasting Pot Tender

GROUP 2 - Refineries; & All Surfaces 30 ft. or over where material is applied to or labor performed on above ground level (exterior), floor level (interior)

GROUP 3 - Swing Stage & Chair

GROUP 4 - Application of Catalized Epoxies and Waterbased Epoxies of 2 or more component materials; Lead Paint Abatement

GROUP 5 - All Methods of Spray, Paint or any Material Applied with a Pressure Device

GROUP 6 - Solvent Based Material; Sand and Abrasive Blasting

PAIN0012I 06/09/2001

| | Rates | Fringes |
|----------------|-------|---------|
| BUTLER COUNTY: | | |
| PAINTERS: | | |
| GROUP 1 | 18.66 | 7.09 |
| GROUP 2 | 19.16 | 7.09 |
| GROUP 3 | 19.41 | 7.09 |
| GROUP 4 | 19.66 | 7.09 |

PAINTERS CLASSIFICATIONS

GROUP 1: Brush & Roller; Paperhanger; & Drywall Taping

GROUP 2: Spray

GROUP 3: Sandblasting; & Waterblasting

GROUP 4: Lead Abatement

* PAIN0012L 06/15/2002

| | Rates | Fringes |
|---|-------|---------|
| BROWN, CLERMONT, CLINTON & WARREN COUNTIES: | | |
| PAINTERS: | | |
| GROUP 1 | 21.30 | 5.10 |
| GROUP 2 | 21.55 | 5.10 |
| GROUP 3 | 21.80 | 5.10 |
| GROUP 4 | 22.05 | 5.10 |
| GROUP 5 | 22.30 | 5.10 |
| GROUP 6 | 23.05 | 5.10 |

PAINTER CLASSIFICATIONS

GROUP 1: Brush; Roller; Steam Cleaning; Tanks; Taping & Washing

GROUP 2: Paperhanging and Wall Covering

GROUP 3: Spray

GROUP 4: Sandblasting; Waterblasting; & Hopper Tender

GROUP 5: Hazardous Work; High Work; Elevated Tanks 40 Feet or Above; & Lead Abatement Projects

GROUP 6: Sandblasting, Hopper Tender & Waterblasting Under Hazardous Conditions

PAIN0012P 11/01/2002

DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, MADISON, PICKAWAY & ROSS
COUNTIES:

PAINTERS:

| | Rates | Fringes |
|--|-------|---------|
| Brush; Paperhanger; Roller; & Wall Washing | 22.52 | 6.02 |
| Drywall Sander | 22.27 | 6.02 |
| Structural Steel & Swing Stage | 22.82 | 6.02 |
| Drywall Taper & Finisher | 22.92 | 6.02 |
| Spray | 23.02 | 6.02 |
| Sandblasting; Steamcleaning; Waterblasting (3500 PSI or Over) & Hazardous Work | 23.22 | 6.02 |

PAIN0012V 05/01/2002

GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES:

PAINTERS:

| | Rates | Fringes |
|--|-------|---------|
| GROUP 1 - Brush; Roller | 20.34 | 5.33 |
| GROUP 2 - Spackling & Drywall Finishing; Vinyl - Paper Wallcovering | 20.69 | 5.33 |
| GROUP 3 - Swing & Scaffold; Structural Steel; High Tension Electrical Equipment; Hot Pipes | 20.75 | 5.33 |
| GROUP 4 - Spray; Sandblasting; Steam Cleaning; & Lead Paint Abatement | 21.09 | 5.33 |
| GROUP 5 - Steeplejack Work - Church Steeple, Smoke Stacks & Hazardous Work | 21.29 | 5.33 |
| GROUP 6 - Coal Tar | 21.84 | 5.33 |

PAIN0093A 06/01/2002

GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON COUNTIES:

PAINTERS (All Work, except Light Commercial Work):

| | | |
|--|-------|------|
| Brush; Roller; & Taper | 23.73 | 4.80 |
| Spray; Sandblasting; & Power Tool Under 30' Preparation | | |
| Confined Areas; & Toxic Material Handlers | 25.50 | 4.80 |

PAIN0093C 06/01/2002

| | Rates | Fringes |
|---|-------|---------|
| GUERNSEY, HOCKING, MONROE, MORGAN, NOBLE & WASHINGTON COUNTIES: | | |

PAINTERS:

| | | |
|---|-------|------|
| Separate contracts let which are not in excess of \$5,000,000.00 | | |
| total project construction costs | 19.07 | 4.80 |

PAIN0356A 07/01/1999

| | Rates | Fringes |
|--------------------------------------|-------|---------|
| LICKING, MUSKINGUM & PERRY COUNTIES: | | |

PAINTERS:

| | | |
|--|-------|------|
| Brush; Roller; Hopper Tender; & Washing | 16.00 | 3.27 |
| Spray; Steamcleaning; Taping; Paperhanging & Wallcovering (furnishing tools) | 16.50 | 3.27 |
| Sandblasting; Waterblasting | 17.00 | 3.27 |
| Lead Abatement | 18.00 | 3.27 |
| Sandblasting, Hopper Tender & Waterblasting Under Hazardous Conditions | 19.00 | 3.27 |
| High Work | 19.25 | 3.27 |

PAIN0372A 02/01/2001

| | Rates | Fringes |
|--|-------|---------|
| DELAWARE, FAIRFIELD, FAYETTE (West of State Rte. #41), FRANKLIN, HOCKING, JACKSON, LICKING, MADISON, MORGAN, MUSKINGUM, PERRY, PICKAWAY, PIKE, ROSS & VINTON COUNTIES: | | |

| | | |
|----------|-------|--------|
| GLAZIERS | 20.92 | 5.02+a |
|----------|-------|--------|

FOOTNOTE:

a. 1 Paid Holiday: Labor Day

PAIN0387A 11/25/2001

| | Rates | Fringes |
|--|-------|---------|
| ADAMS, BROWN, BUTLER, CLERMONT, CLINTON, FAYETTE (Eastern part), GREENE, HIGHLAND, MIAMI, MONTGOMERY, PREBLE & WARREN COUNTIES: | | |

| | | |
|----------|-------|------|
| GLAZIERS | 21.00 | 4.95 |
|----------|-------|------|

PAIN0406A 06/01/1999

| | Rates | Fringes |
|--|-------|---------|
| ASHLAND, CRAWFORD, KNOX, MORROW & RICHLAND COUNTIES: | | |

PAINTERS:

| | | |
|---|-------|------|
| GROUP 1 - Drywall, Paperhanger, Wall Coverer & Pot Tender when tending 2 or more Sprayers or Metalizing Workers | 18.55 | 2.00 |
| GROUP 2 - Brush; Cleaner; Roller; & Washer | 19.00 | 2.00 |
| GROUP 3 - Structural Steel; & Hazardous Materials, including Epoxy and/or other materials; Dirty Factory Work; & Lead Abatement | 19.50 | 2.00 |
| GROUP 4 - Riggers on Work more than 30 ft. above base level, includes base level & up work; Spray; & Electrostatic Applications | 19.75 | 2.00 |
| GROUP 5 - Blasting: Sand, Grit, Shot, Water; & Metalizing Workers | 20.15 | 2.00 |

SWING STAGE, WINDOW JACKS, BOATSWAIN CHAIR, SPIDER, CHERRY PICKER
AND OTHER TYPES OF LIFTS - \$.25 PREMIUM

PAIN0438A 07/01/2001

| | Rates | Fringes |
|---|-------|---------|
| BELMONT, HARRISON & JEFFERSON COUNTIES: | | |

PAINTERS:

| | | |
|---------|-------|------|
| GROUP 1 | 20.24 | 5.34 |
| GROUP 2 | 20.90 | 5.34 |

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Roll; Drywall Taping; & Spray
GROUP 2 - Special Coatings (Anything thinned by MEK, alcohol,
hot or experimental thinners, coal tar epoxies & any
experimental paints); Waterblast; Sandblast; Power Tools; Lead
Abatement; Vinyl Hanging; & Bazooga & Banjo Tools for Taping

PAIN0555A 11/01/2002

| | Rates | Fringes |
|---|-------|---------|
| ADAMS, HIGHLAND, JACKSON, PIKE & SCIOTO COUNTIES: | | |

PAINTERS:

| | | |
|---------|-------|------|
| GROUP 1 | 19.34 | 8.22 |
| GROUP 2 | 20.34 | 8.22 |

PAINTER CLASSIFICATIONS

GROUP 1 - Brush; Roller; Taping; & Wallcovering

GROUP 2 - Floor Sanding; Power Tools; Sandblasting; Spray; Steam
Cleaning; Pressure Washing; Lead Abatement; Hazardous Waste,
Toxic Materials; Epoxy & Two Component Materials

PAIN0603A 06/01/2001

| | Rates | Fringes |
|---|-------|---------|
| COSHOCTON, HOLMES, TUSCARAWAS & WAYNE COUNTIES: | | |

PAINTERS:

| | | |
|-----------------------------|-------|------|
| Brush & Roller | 17.20 | 7.39 |
| Paperhanger | 17.30 | 7.39 |
| Spray | 17.70 | 7.39 |
| Drywall Taper | 17.60 | 7.39 |
| Drywall Taper With Machines | 17.95 | 7.39 |

Swing Stage, Ladder Jack & Window Jack - \$.30 Premium

PAIN0639A 05/01/2002

| | Rates | Fringes |
|------------------------|-------|---------|
| SIGN PAINTER & ERECTOR | 17.12 | 4.27+ |
| | a+b+c | |

FOOTNOTES:

a. 7 Paid Holidays: New Year's Day; Memorial Day; July 4th;
Labor Day; Thanksgiving Day; Christmas Day & 1 Floating Day

b. Vacation Pay: After 1 year's service - 5 days' paid
vacation; After 2, but less than 10 years' service - 10 days'
paid vacation; After 10, but less than 20 years' service - 15
days' paid vacation; After 20 years' service - 20 days' paid
vacation

c. Funeral leave up to 3 days maximum paid leave for death of
mother, father, brother, sister, spouse, child, mother-in-
law, father-in-law, grandparent and inlaw provided employee
attends funeral

PAIN0751H 07/01/2001

| | Rates | Fringes |
|---|-------|---------|
| BELMONT, HARRISON, JEFFERSON, & MONROE, COUNTIES: | | |

| | | |
|----------|-------|------|
| GLAZIERS | 18.73 | 7.03 |
|----------|-------|------|

PAIN0751K 07/01/2001

| | Rates | Fringes |
|---------------------------------------|-------|---------|
| GUERNSEY, NOBLE & WASHINGTON COUNTIES | | |

| | | |
|----------|-------|------|
| GLAZIERS | 14.49 | 6.00 |
|----------|-------|------|

| | | |
|---|-------|---------|
| PAIN0813D 06/01/2001 | | |
| | Rates | Fringes |
| VINTON COUNTY: | | |
| PAINTERS: | | |
| GROUP 1 | 20.30 | 7.00 |
| GROUP 2 | 21.65 | 7.00 |
| GROUP 3 | 20.85 | 7.00 |
| PAINTER CLASSIFICATIONS | | |
| GROUP 1 - Brush & Roller | | |
| GROUP 2 - Spray; Sandblasting; Drywall Finishing & Texturing | | |
| GROUP 3 - Wallcovering & Vinyl; Machine, Toolstand & Stilts | | |
| ----- | | |
| PAIN1162A 06/01/2001 | | |
| | Rates | Fringes |
| COSHOCKTON, HOLMES, TUSCARAWAS & WAYNE COUNTIES: | | |
| GLAZIERS | 20.03 | 6.06 |
| ----- | | |
| PAIN1195D 11/05/2002 | | |
| | Rates | Fringes |
| SCIOTO COUNTY: | | |
| GLAZIERS | 23.11 | 3.85 |
| ----- | | |
| PAIN1920A 05/01/1998 | | |
| | Rates | Fringes |
| ASHLAND, CRAWFORD, HURON (S. part), KNOX, RICHLAND & WYANDOT (E. part) COUNTIES: | | |
| GLAZIERS: | | |
| Outside Replacement | 12.08 | .51 |
| Outside All Other Work | 12.58 | .51 |
| ----- | | |
| PAIN6000E 04/01/2000 | | |
| | Rates | Fringes |
| ALLEN & AUGLAIZE COUNTIES: | | |
| PAINTERS: | | |
| Brush; Roller; & Drywall Taping | 17.20 | 5.30 |
| Paperhanger | 17.45 | 5.30 |
| Spray; Sandblasting; Pressure Cleaning & Drywall (Using stilts & automatic tools) | 17.95 | 5.30 |
| Swing Stage, Chair, Safety Belts, Spiders & Cherry Pickers - \$.25 premium | | |

All Surfaces 40 ft. or over where material is applied to or labor performed on, above ground level (exterior), floor level (interior) - \$.50 premium

Applying Coal Tar Products - \$1.00 premium

PAIN6000H 05/01/2001

ERIE (Excluding NW tip to Route #4), & HURON (NE part) COUNTIES:

| | Rates | Fringes |
|----------|-------|---------|
| GLAZIERS | 24.24 | 8.02 |

PAIN6000J 09/01/2001

ALLEN, AUGLAIZE, HANCOCK & WYANDOT (W. part) COUNTIES

| | Rates | Fringes |
|----------|-------|---------|
| GLAZIERS | 14.85 | 3.50 |

PAIN6000K 07/01/2001

ERIE (NW tip of county to Route #4), OTTAWA, SANDUSKY, SENECA, & WOOD COUNTIES

| | Rates | Fringes |
|----------|-------|---------|
| GLAZIERS | 23.53 | 5.79 |

PLAS0001A 06/22/1999

BROWN, BUTLER, CLERMONT, HIGHLAND & WARREN COUNTIES:

PLASTERERS:

Pointing & Taping of Drywall
Surfaces, Acoustical Finishes on
Concrete & Drywall Surfaces

| | |
|-------|------|
| 18.40 | 2.60 |
|-------|------|

All Other Work

| | |
|-------|------|
| 21.25 | 2.60 |
|-------|------|

PLAS0001P 06/01/1998

ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding Tymochtee, Crawford, Ridge & Richland Townships) COUNTIES:

PLASTERERS:

On Exterior Insulation Finish
Systems

| | |
|-------|------|
| 14.60 | 4.91 |
|-------|------|

All Other Work

| | |
|-------|------|
| 17.83 | 4.87 |
|-------|------|

PLAS0001Q 06/01/1998

| | Rates | Fringes |
|--|-------|---------|
| ASHLAND, CRAWFORD, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, PERRY, PICKAWAY, RICHLAND, ROSS & WYANDOT (Excluding the townships of Tymochtee, Crawford, Ridge & Richland) COUNTIES: | | |
| CEMENT MASONS | 18.03 | 5.00 |
| ----- | | |
| PLAS0001R 06/01/1998 | | |
| | Rates | Fringes |
| MONROE, NOBLE & WASHINGTON COUNTIES: | | |
| CEMENT MASONS | 17.41 | 4.93 |
| ----- | | |
| PLAS0001S 06/01/1998 | | |
| | Rates | Fringes |
| MONROE, NOBLE & WASHINGTON COUNTIES: | | |
| PLASTERERS | 17.83 | 4.87 |
| ----- | | |
| PLAS0039A 07/01/2002 | | |
| | Rates | Fringes |
| BELMONT, HARRISON & JEFFERSON COUNTIES: | | |
| CEMENT MASONS | 20.73 | 7.13 |
| ----- | | |
| PLAS0039B 07/01/2002 | | |
| | Rates | Fringes |
| BELMONT, HARRISON & JEFFERSON COUNTIES: | | |
| PLASTERERS | 21.13 | 6.55 |
| ----- | | |
| PLAS0132B 06/01/1999 | | |
| | Rates | Fringes |
| CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| CEMENT MASONS | 19.18 | 6.30 |
| ----- | | |
| PLAS0132D 06/01/1999 | | |
| | Rates | Fringes |
| CLINTON, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |
| PLASTERERS | 20.25 | 6.20 |
| ----- | | |
| PLAS0132F 06/01/2001 | | |
| | Rates | Fringes |
| BROWN, BUTLER, CLERMONT, HIGHLAND & WARREN COUNTIES: | | |
| CEMENT MASONS | 19.80 | 5.50 |

| | | |
|--|-------|---------|
| ----- | | |
| PLAS0132J 06/01/2000 | | |
| | Rates | Fringes |
| ADAMS, JACKSON, PIKE & SCIOTO COUNTIES: | | |
| CEMENT MASONS; PLASTERERS | 23.98 | 6.97 |
| ----- | | |
| PLAS0886A 07/01/2002 | | |
| | Rates | Fringes |
| HANCOCK & WOOD COUNTIES: | | |
| CEMENT MASONS | 25.38 | 8.77 |
| ----- | | |
| PLAS0886C 07/01/1999 | | |
| | Rates | Fringes |
| ALLEN & AUGLAIZE COUNTIES: | | |
| CEMENT MASONS | 20.35 | 7.00 |
| ----- | | |
| PLAS0886D 07/01/2002 | | |
| | Rates | Fringes |
| ALLEN, AUGLAIZE, HANCOCK & WOOD (Excluding Perry & Bloom Townships) COUNTIES: | | |
| PLASTERERS | 25.56 | 7.22 |
| DRYWALLERS | 24.20 | 7.22 |
| ----- | | |
| PLUM0042A 07/01/2002 | | |
| | Rates | Fringes |
| ASHLAND, CRAWFORD, ERIE, HURON, KNOX, MORROW, RICHLAND & WYANDOT COUNTIES: | | |
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 23.70 | 11.50 |
| ----- | | |
| PLUM0050A 07/01/2002 | | |
| | Rates | Fringes |
| HANCOCK, OTTAWA, SANDUSKY, SENECA & WOOD COUNTIES: | | |
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 28.10 | 12.20 |
| ----- | | |
| PLUM0083A 07/01/2002 | | |
| | Rates | Fringes |
| BELMONT & MONROE (North of Rte. #78) COUNTIES: | | |
| PLUMBERS & STEAMFITTERS | 20.06 | 15.30 |
| ----- | | |
| PLUM0094A 11/01/2002 | | |
| | Rates | Fringes |

WAYNE COUNTY:

| | | |
|------------------------|-------|-------|
| PIPEFITTERS & PLUMBERS | 23.45 | 10.32 |
|------------------------|-------|-------|

* PLUM0162A 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
| CLINTON, FAYETTE, GREENE, MIAMI, MONTGOMERY & PREBLE COUNTIES: | | |

| | | |
|-------------------------------------|-------|------|
| PIPEFITTERS; PLUMBERS; STEAMFITTERS | 25.15 | 9.27 |
|-------------------------------------|-------|------|

PLUM0168A 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
| MONROE (South of Rte. #78), MORGAN (South of Rte. #78) & WASHINGTON COUNTIES: | | |

| | | |
|------------------------|-------|-------|
| PIPEFITTERS & PLUMBERS | 26.08 | 10.54 |
|------------------------|-------|-------|

PLUM0189A 06/01/2002

| | | |
|---|-------|---------|
| | Rates | Fringes |
| DELAWARE, FAIRFIELD, FRANKLIN, HOCKING, LICKING, MADISON, PERRY, PICKAWAY & ROSS COUNTIES: | | |

| | | |
|--|-------|------|
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 26.50 | 9.98 |
|--|-------|------|

PLUM0392A 06/01/2002

| | | |
|--|-------|---------|
| | Rates | Fringes |
| BROWN, BUTLER, CLERMONT & WARREN COUNTIES: | | |

| | | |
|------------------------|-------|------|
| PIPEFITTERS & PLUMBERS | 26.00 | 8.09 |
|------------------------|-------|------|

PLUM0495A 06/01/2001

| | | |
|---|-------|---------|
| | Rates | Fringes |
| SHOCTON, GUERNSEY, HARRISON, HOLMES, JEFFERSON, MORGAN (South to State Rte. #78 & from McConnelssville west on State Rte. #37 to the Perry County Line), MUSKINGUM, NOBLE & TUSCARAWAS COUNTIES: | | |

| | | |
|--|-------|------|
| PIPEFITTERS; PLUMBERS; & STEAMFITTERS | 22.73 | 9.72 |
|--|-------|------|

PLUM0577A 06/01/2002

| | | |
|---|-------|---------|
| | Rates | Fringes |
| ADAMS, HIGHLAND, JACKSON, PIKE, SCIOTO & VINTON COUNTIES: | | |

PIPEFITTERS; PLUMBERS;
& STEAMFITTERS:
Manufacturing Plants, Testing
Facilities, Enrichment Plants,

Compressor Stations, Power
Generating Plants, Coke Plants,
Co-Generation Plants, Chemical
Plants, Incinerators & Steel
Mills

25.28

11.14

All Other Work

22.78

11.14

PLUM0776A 07/01/2002

Rates

Fringes

ALLEN & AUGLAIZE COUNTIES:

PIPEFITTERS; PLUMBERS;
& STEAMFITTERS

23.94

10.80

ROOF0042A 08/01/2002

Rates

Fringes

BROWN, BUTLER, CLERMONT & WARREN COUNTIES:

ROOFERS:

Roofers

24.15

6.04

Pitch

25.15

6.04

ROOF0044A 05/01/2002

Rates

Fringes

ERIE, OTTAWA & SANDUSKY COUNTIES:

ROOFERS

24.23

10.10

ROOF0075A 05/01/1999

Rates

Fringes

CLINTON, GREENE, HIGHLAND, MIAMI, MONTGOMERY & PREBLE COUNTIES:

ROOFERS:

Composition, Damp & Waterproof

19.35

5.42

Slate, Tile & Asbestos

19.57

5.42

ROOF0086A 09/01/2001

Rates

Fringes

AUGLAIZE, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, HOCKING, KNOX,
LICKING, MADISON, MORROW, PERRY, PICKAWAY, ROSS & WYANDOT
COUNTIES:

ROOFERS

20.56

7.40

ROOF0088A 06/01/2001

Rates

Fringes

ASHLAND, COSHOCTON, CRAWFORD, HOLMES, HURON, RICHLAND, SENECA,
TUSCARAWAS & WAYNE COUNTIES:

| | | |
|--|-------|---------|
| ROOFERS | 19.95 | 6.96 |
| ----- | | |
| ROOF0134A 07/01/2001 | | |
| | Rates | Fringes |
| ALLEN, HANCOCK & WOOD COUNTIES: | | |
| ROOFERS | 22.60 | 8.08 |
| ----- | | |
| ROOF0185A 06/01/2002 | | |
| | Rates | Fringes |
| ADAMS, JACKSON, PIKE, SCIOTO & VINTON COUNTIES: | | |
| ROOFERS | 23.75 | 5.60 |
| ----- | | |
| ROOF0188A 07/01/2002 | | |
| | Rates | Fringes |
| BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES: | | |
| ROOFERS: | | |
| Roofers | 21.27 | 6.75 |
| Coal Tar Pitch Waterproofing | 21.52 | 6.75 |
| ----- | | |
| ROOF0242A 06/01/2002 | | |
| | Rates | Fringes |
| GUERNSEY, MORGAN, MUSKINGUM, NOBLE & WASHINGTON COUNTIES: | | |
| ROOFERS | 20.94 | 6.73 |
| ----- | | |
| SFOH0669A 01/01/2003 | | |
| | Rates | Fringes |
| ADAMS, ALLEN, ASHLAND, AUGLAIZE, BELMONT, BROWN, BUTLER, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK, HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON, KNOX, LICKING, MADISON, MIAMI, MONROE, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN, WASHINGTON, WAYNE, WOOD & WYANDOT COUNTIES: | | |
| SPRINKLER FITTERS | 28.75 | 7.60 |
| ----- | | |
| SHEE0024A 06/01/2001 | | |
| | Rates | Fringes |
| ALLEN, AUGLAIZE, BUTLER, CLINTON, GREENE, MIAMI, MONTGOMERY, PREBLE, WARREN & WYANDOT COUNTIES: | | |
| SHEET METAL WORKERS | 23.41 | 9.91 |
| ----- | | |

| | | |
|---|-------|---------|
| SHEE0024B 06/01/2002 | | |
| | Rates | Fringes |
| BROWN, CLERMONT & HIGHLAND COUNTIES: | | |
| SHEET METAL WORKERS | 23.27 | 10.03 |
| ----- | | |
| SHEE0024G 06/01/2002 | | |
| | Rates | Fringes |
| ADAMS, DELAWARE, FAIRFIELD, FAYETTE, FRANKLIN, GUERNSEY, HOCKING, JACKSON, KNOX, LICKING, MADISON, MORGAN, MORROW, MUSKINGUM, NOBLE, PERRY, PICKAWAY, PIKE, ROSS, SCIOTO & VINTON COUNTIES: | | |
| SHEET METAL WORKERS | 23.12 | 11.49 |
| ----- | | |
| SHEE0033B 07/01/2002 | | |
| | Rates | Fringes |
| HANCOCK, OTTAWA, SENECA & WOOD COUNTIES: | | |
| SHEET METAL WORKERS | 26.40 | 11.36 |
| ----- | | |
| SHEE0033E 06/01/2002 | | |
| | Rates | Fringes |
| ASHLAND, COSHOCTON, CRAWFORD, HOLMES, RICHLAND, TUSCARAWAS & WAYNE COUNTIES: | | |
| SHEET METAL WORKERS | 23.48 | 11.05 |
| ----- | | |
| SHEE0033G 06/01/2002 | | |
| | Rates | Fringes |
| ERIE, HURON & SANDUSKY COUNTIES: | | |
| SHEET METAL WORKERS | 23.27 | 9.90 |
| ----- | | |
| SHEE0033J 07/01/2002 | | |
| | Rates | Fringes |
| WASHINGTON COUNTY: | | |
| SHEET METAL WORKERS | 23.43 | 11.73 |
| ----- | | |
| SHEE0033M 07/01/2002 | | |
| | Rates | Fringes |
| BELMONT, HARRISON, JEFFERSON & MONROE COUNTIES: | | |
| SHEET METAL WORKERS | 22.25 | 10.99 |
| ----- | | |
| TEAM0175B 06/01/1999 | | |
| | Rates | Fringes |
| WASHINGTON COUNTY: | | |

TRUCK DRIVERS:

| | | |
|---------|-------|-------|
| GROUP 1 | 18.05 | .08+a |
| GROUP 2 | 18.15 | .08+a |
| GROUP 3 | 18.30 | .08+a |
| GROUP 4 | 18.45 | .08+a |
| GROUP 5 | 18.70 | .08+a |
| GROUP 6 | 18.80 | .08+a |
| GROUP 7 | 18.95 | .08+a |

FOOTNOTE:

a. \$1,072.12 per month

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Pick-Up; & Panel

GROUP 2 - Flat Body Material (Straight Jobs); Dump (Up to 5 cu. yds.); Greaser; Washer; Tireman; Mechanic; & Tank (Straight)

GROUP 3 - Dump (5 cu. yds. & over); Semi-Dump; Semi-Trailer (whether Flat, Rack or Pole and hauled or pushed by truck or tractor); Agitator or Mixed (Up to 5 cu. yds.); Tank (Semi); & Monorail

GROUP 4 - Low Boy Trailer; Winch; Fork; Distributor (Front & Back End); Truck Crane; Agitator or Mixer (5 cu. yds. & over); Hydraulic Tail Gate; & Farm Type Tractor

GROUP 5 - Euclid; Dumpster; Turnarocker; Ross Carrier; Athey Wagon or Similar Equipment; A-Frame; Hydrolift; & Dual Purpose

GROUP 6 - Mechanic

GROUP 7 - Master Mechanic (3 or more employed)

TEAM0377A 05/01/1997

| | Rates | Fringes |
|--|-------|---------|
| ADAMS, ASHLAND, BROWN, BUTLER, CLERMONT, CLINTON, COSHOCTON, CRAWFORD, DELAWARE, ERIE, FAIRFIELD, FAYETTE, FRANKLIN, GREENE, GUERNSEY, HANCOCK (From the southern boundary of the city of Findlay to the northern boundary of Hancock County), HARRISON, HIGHLAND, HOCKING, HOLMES, HURON, JACKSON, JEFFERSON (South to Short Creek), KNOX, LICKING, MADISON, MIAMI, MONTGOMERY, MORGAN, MORROW, MUSKINGUM, NOBLE, OTTAWA, PERRY, PICKAWAY, PIKE, PREBLE, RICHLAND, ROSS, SANDUSKY, SCIOTO, SENECA, TUSCARAWAS, VINTON, WARREN, WAYNE, WOOD, & WYANDOT COUNTIES: | | |

TRUCK DRIVERS:

| | | |
|---------|-------|------|
| GROUP 1 | 16.29 | 6.22 |
| GROUP 2 | 16.34 | 6.22 |
| GROUP 3 | 16.39 | 6.22 |
| GROUP 4 | 16.49 | 6.22 |
| GROUP 5 | 16.76 | 6.22 |

TRUCK DRIVER CLASSIFICATIONS

GROUP 1 - Asphalt Distributor; Batch; 4- Wheel Service; 4-Wheel Dump; & Oil Distributor

GROUP 2 - Tandem

GROUP 3 - Tractor-Trailer Combination: Fuel; Pole Trailer; Ready Mix; Semi-Tractor; & Asphalt Oil Spraybar Man

GROUP 4 - 5 Axles & Over; & Asphalt Oiler Spraybar Man When Operated From Cab

GROUP 5 - Belly Dump; End Dump; Articulated Dump; Heavy Duty Equipment; Low Boy; & Truck Mechanic

TEAM0697A 09/01/2000

BELMONT, JEFFERSON (North to Short Creek) & MONROE COUNTIES:

TRUCK DRIVERS:

| | Rates | Fringes |
|---|-------|---------|
| GROUP 1 - Pickup | 18.75 | 6.275 |
| GROUP 2 - Flatbed Material; Dump & Semi-Dump | 18.80 | 6.275 |
| GROUP 3 - Tank (Straight & Semi) | 18.83 | 6.275 |
| GROUP 4 - Semi-Tractor Trailer | 18.85 | 6.275 |
| GROUP 5 - Pole Trailer | 18.95 | 6.275 |
| GROUP 6 - Agitator & Mixer (Up to 5 cu. yds.) | 19.03 | 6.275 |
| GROUP 7 - Euclid; Dumpster; Turnarocker; Ross Carrier; & Athey Wagon | 19.08 | 6.275 |
| GROUP 8 - Agitator & Mixer (Over 5 cu. yds.) | 19.11 | 6.275 |
| GROUP 9 - Lowboy Trailer; Winch; Fork & Distributor (Front & Back End); & Truck Crane | 19.38 | 6.275 |
| GROUP 10 - A-Frame | 19.45 | 6.275 |
| GROUP 11 - Mechanic | 19.48 | 6.275 |

TEAM0908A 05/18/1997

ALLEN, AUGLAIZE & HANCOCK (From the southern boundary of the city

of Findlay to the southern boundary of Hancock County) COUNTIES:

TRUCK DRIVERS:

| | | |
|--------|-------|--------|
| Lowboy | 17.45 | 3.57+a |
|--------|-------|--------|

FOOTNOTE:

a. \$61.00 per week

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

=====

Unlisted classifications needed for work not included within

the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29 CFR 5.5(a)(1)(ii)).

In the listing above, the "SU" designation means that rates listed under that identifier do not reflect collectively bargained wage and fringe benefit rates. Other designations indicate unions whose rates have been determined to be prevailing.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

2.) If the answer to the question in 1.) is yes, then an

interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment

data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U. S. Department of Labor
200 Constitution Avenue, N. W.
Washington, D. C. 20210

4.) All decisions by the Administrative Review Board are final.
END OF GENERAL DECISION

(End of Summary of Changes)

SECTION C-01010

PROJECT SYNOPSIS

PART 1 - GENERAL

1.1 Provide all labor, equipment, supplies, consultant services and materials to design and construct a new Fully Contained Small Arms Range Complex for the training of military personnel. The project will include facilities for certification in the use of handguns with a maximum caliber of 45, shotguns that utilize 12 gauge slugs, rifles and machine guns with a maximum caliber of 7.62mm. The range will include 21 firing line positions for pistols, rifles and shotguns and two safety lanes. In addition, two special firing line positions and two safety lanes for machine guns is required. Range support functions include a bullet trap area, weapons maintenance / cleaning room, classrooms, administrative offices, target storage & repair, storage of range supplies / equipment and an alarmed arms vault. The project also includes demolition of existing utilities and removal of an existing building slab on the new construction site. Provide a complete and usable facility, including all site requirements and site restoration to meet the requirements contained herein. The Contractor will be required to prepare original drawings using a CADD System (as defined in Section 01021) and shall supply a record of the as-built drawings on magnetic media in Microstation format to the Government at the completion of the project.

Base Bid - This project will consist of a Base Bid and Options. All design and construction for this RFP is included as part of the Base Bid, except for the Bid Options identified as follows:

Option #1 - Furniture (See 01020, 4.2 and 4.3)

1.2 RFP DOCUMENTS

1.2.1 These RFP documents set forth the parameters for the development of a full and complete design.

1.2.2 These RFP documents are provided as a performance standard. The Contractor is required to independently prepare and submit for approval a complete Design. The Contractor's Design Professionals shall independently confirm and be responsible for the technical accuracy and adequacy of all aspects of the design.

1.2.3 Where conflicts or question arise regarding the application of the requirements outlined in the RFP documents, the following order of precedence shall apply:

1. RFP specification section 01020
2. RFP specification section, 01021
3. RFP specification section 01010
4. RFP Drawings

5. UFGS Technical Specifications
6. WPAFB Base Facility Standard

1.2.4 The RFP documents are intended to define the functional and aesthetic project Design/Build requirements. The contractor is responsible for the design and coordination necessary to provide a complete and useable facility in accordance with the RFP requirements. The RFP documents are not intended to be construction documents. It is expected that the contractor will investigate the RFP requirements and independently further develop the design to sufficiently prepare a proposal. The Contractor shall involve their subcontractors (including their designer) in the preparation of the proposal.

1.3 PROPOSAL REQUIREMENTS

1.3.1 Respondents to this Request for Proposal (RFP) must provide sufficient data and detail in their proposal, as indicated in Section 00115 of this solicitation.

1.4 UTILITIES

1.4.1 Unless noted otherwise in this solicitation, respondents shall assume that adequate utility capacities for power, communications, water, steam, sanitary sewer, and storm sewer are available at the site to support the facility. Upgrading the existing utilities (unless noted otherwise) outside the limits of construction is not a part of this project.

1.5 CODES AND STANDARDS

1.5.1 Comply with the applicable current state, local and National Codes & Standards, requirements of product manufacturers, authorities having jurisdiction and requirements of these RFP documents in the preparation of the project final design and construction. The current edition of the Codes and Standards applicable to this project include, but are not limited to (where there are discrepancies between codes the most stringent requirement shall apply):

- Wright-Patterson Base Facility Standard, Edited Edition Attached
- U.S. and Ohio Environmental Protection Agency applicable standards and codes
- International Building Code (IBC) 2000
- NFPA 24
- NFPA 72
- NFPA 101, Life Safety Code
- NFPA 10, 13, 17, 90A, 90B, 96
- ASHRAE Fundamentals Handbook
- ASHRAE Standard 62-1989
- National Standard Plumbing Code
- International Mechanical Code
- National Electrical Code
- Occupational Safety and Health Act (OSHA) - applicable standards and regulations of the latest edition
- Asphalt Institute Standards

- American Concrete Institute (ACI)
- Architectural Woodwork Institute (AWI)
- American National Standards Institute (ANSI)
- American Welding Society (AWS) "Structural Welding Code"
- American Water Works Association (AWWA)
- American Society for Testing and Materials (ASTM)
- ASCE 7-98, Minimum Design Loads for Buildings and Other Structures
- NFPA 75
- NFPA 24

1.6 SPECIFICATIONS

1.6.1 The RFP is intended to provide minimum standards for quality of materials and construction. The RFP shall be used by the Design/Build Contractor as the basis for development of a comprehensive specification

1.6.2 The guide specifications have been included to ensure a level of quality expected in Military Construction and, in many cases, exceed what is required for a merely functional project. The Government has included these requirements for a number of reasons, including better efficiency, longer life, less maintenance, etc. Guide specification paragraphs describing materials and equipment that are to be used on this project, as well as the associated installation, execution, and general requirement paragraphs, shall be retained verbatim in the final specifications. Paragraph numbering shall not be altered. Inapplicable paragraphs shall be replaced with the words "Not Used" while retaining the paragraph number.

1.6.2 The Design/Build Contractor shall provide typed edited copy of specifications for the design using Specintact format.

1.7 USE OF THE PROJECT SITE

1.7.1 Contractor shall have use of the project site for execution of the work as defined in the requirements of *Construction Considerations and Use of Premises* outlined in Section 01020. Entrance into and interface with the surrounding facilities shall be coordinated in advance with the Contracting Officer. The project site is "secured" within the fenced boundaries of the Base. Access will require advance notice and security passes at all times.

1.8 SAFEKEEPING OF PRODUCTS AND MATERIALS

1.8.1 Contractor shall assume full responsibility for protection and safekeeping of products and materials stored on the site under this Contract.

1.9 AS-BUILT DRAWINGS

1.9.1 Contractor shall provide as-built drawings (electronic file) to the Contracting Officer. Refer to Specification *Section 01021, Design Submission Requirements After Award* and section 00800 for specific requirements.

1.10 PERMITS

1.10.1 General Information:

1.10.1.1 Contractor is required to investigate, submit for any permits necessary for the design and construction of this facility. All permit applications shall be submitted to the Contracting Officer Representative; refer to Section 01020 for environmental permitting requirements (Contractor will pay all permit fees):

1.10.1.2 New steam, water, sanitary sewer, and electrical service will be extended to the new building site from local adjacent utilities. Existing utilities at the demolition site will be removed and / or capped below grade.

1.10.1.3 The following permitting requirements are anticipated:

1.10.2 Storm Water Permit Requirements:

1.10.2.1 An NPDES Permit will be required.

1.10.2.2 Because this project will disturb more than one (1) acre of land (requirement is effective 10 March 2003), a National Pollution Discharge Elimination System Notice of Intent (NOI) will be required to be issued by the Ohio EPA. The Design / Build Contractor shall prepare the following documents prior to ground breaking:

a. Prepare a Stormwater Pollution Prevention Plan (2 copies - 1 to be maintained on site). Refer to the Ohio EPA web site for information <http://www.epa.state.oh/us/dsw>).

b. Prepare a Notice of Intent (NOI) and submit the following to the Ohio EPA a minimum of 60 days prior to the commencement of construction:

- NOI Application Form
- NOI Application Instructions
- SWPP
- 8-1/2" x 11" drawing of excavation area, including adjacent areas (4 copies)
- NOI fees in accordance with the Ohio EPA schedule for sites greater than 1 acre.

Submit documents to the Contracting Officer for coordination with the Wright-Patterson Base Environmental office for review and submission to the Ohio EPA.

1.10.2.3 The Design / Build Contractor shall prepare a Notice of Termination (NOT) thirty (30) days after completion of the project. Prepare and submit the following:

- a. NOT Application Form notifying the Ohio EPA of termination of activity
- b. NOT Application Instructions

Submit documents to the Contracting Officer for coordination with the Wright-Patterson Base Environmental office for review and submission to the Ohio EPA.

1.10.3 Water Main Permit Requirements:

1.10.3.1 An Ohio EPA Plans Approval is required for the extension of water main service to the building. The Design / Build Contractor shall prepare and submit the following:

- a. Plans and profiles of the new water main, including adjacent and intersecting utilities, design details and construction specifications.
- b. A completed Ohio EPA "Water Supply Data Sheet" and "Fee Worksheet". Copies of these forms are available from the Ohio EPA.
- c. Application fee is calculated at 0.20% of the water main construction cost plus \$100.00.

1.10.4 Natural Gas Main Permit Requirements:

1.10.4.1 None required.

1.10.5 Air Permits:

1.10.5.1 An Air Permit may be required for the Range Exhaust system. Contractor shall investigate the permit requirement during the design process. If a permit is required, the Contractor shall prepare all permit application documents and submit to the Contracting Office for coordination through the WPAFB Base Environmental Office.

1.11 SHOP DRAWING REVIEW AND APPROVAL

1.11.1 Contractor's "Designer of Record" shall be required to review and approve all shop drawings that are required by the design.

1.11.2 Submittals for the above shop drawings shall be in accordance with Section 01331. Government may review these submittals for compliance with the contract.

PART 2 - DESCRIPTION OF RFP PROCESS

2.1 GENERAL

2.1.1 This project will be designed and constructed by a single firm or team of firms (the Contractor), that has registered architects and engineers employed by or subcontracted to their organization. The Contractor is responsible for the design and construction whether the Contractor uses architects and engineers from within his organization or subcontracts with an outside Architect/Engineer firms(s) for design services.

2.1.2 An outline description of the Design-Build (DB) process follows:

2.2 PROPOSAL PHASE

2.2.1 The Proposal Phase includes that time from announcement of the project through the selection process and the final award of the contract to the successful Offeror.

2.2.2 To be considered for selection, respondent must submit all required documents as specified in Section 00115.

2.2.3 The Corps of Engineers will evaluate the proposals and will award the contract to a single Offeror based upon criteria, which is outlined in Section 00130 (Evaluation Factors and Award). The Government may accept any alternates as determined to be in its best interest.

2.3 DESIGN & CONSTRUCTION PHASE

2.3.1 Refer to specification Section 01021 for information regarding the requirements during design and construction.

PART 3 - PROJECT SCHEDULE

3.1 GENERAL

3.1.1 The Contractor shall complete the entire work ready for use as stated in Section 00800, paragraph 1.3.

3.1.2 Refer to Sections 00115 and 00130 for the schedule to be submitted with the proposal.

3.1.3 The schedule must allow 21 days after receipt for Government review of each design submittal. If the submittal arrives on Friday or a weekend, the review time starts on the following Monday. Sufficient time should be included in the schedule for mailing, a review meeting at Wright-Patterson AFB, correction of the documents by the contractor and backcheck of the

corrections by the Government and the contractor together, at each design submittal.

3.1.4 The contractor must ensure that all elements of his team concur in the design and in responses to comments before being submitted to the Government for review. Delays because sub-contractors do not agree with the design or comment responses will be the Contractor's responsibility.

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3.2 SUMMARY LIST OF MAJOR MILESTONE EVENTS DURING DESIGN & CONSTRUCTION

1. Contract Award / Design Notice to Proceed (NTP).
2. Submit Design Quality Control Plan.
3. Submit required state construction and NPDES permits
4. Predesign/build Meeting and Voluntary Partnering Workshop.
5. Submit Phase I Design.
6. Receive Government Review Comments.
7. Conduct Review Meeting.
8. Distribute comments, responses and meeting minutes.
9. Make design corrections/revisions to design.
10. Phase I Construction NTP
11. Submit Phase II Uncorrected Final Design.
12. Receive Government Review Comments.
13. Conduct Review Meeting.
14. Distribute comments, responses and meeting minutes.
15. Make design corrections/revisions to design.
16. Phase II 100% Design Backcheck.
17. Submit Phase II Certified 100% Design.
18. Phase II Construction NTP (5 days after Phase II Certified 100% Design submitted).
19. Project Substantial Completion.

Project Schedule as shown above represents the government's estimate of time required to complete the project. *1

SECTION 01020

GENERAL DESIGN REQUIREMENTS

PART 1 - GENERAL**1.1 GENERAL REQUIREMENTS:**

1.1.1 The project will include facilities for a new 2,653SM Fully Contained Small Arms Range for certification in the use of handguns, shotguns, rifles and machine guns. The range will include 21 firing line positions for pistols, rifles and shotguns and two special firing line positions for machine guns and safety lanes. Range support functions include a bullet trap area, weapons maintenance / cleaning room, classrooms, administrative offices, target storage & repair, storage of range supplies / equipment and an alarmed arms vault. The project also includes demolition of existing utilities and removal of an existing building slab on the new construction site.

1.1.2 All aspects of this project, including but not limited to, the RFP requirements, demolition of facilities, extension, interface, and connection of all required utilities, and all necessary site demolition and development shall be included in this Design/Build contract.

1.1.3 Site Plans, Building Plans, Elevations and specifications are provided as guidance in outlining the project development requirements. The Contractor will be fully responsible for preparing independently developed 100% complete design documents.

***1**

The Contractor shall incorporate the following into the design and construction:

A. Add operable awning windows to (2) locations for a total of (4) windows in Room 109 (Classroom). Windows shall be as detailed in project drawings and similar to requirements for Room 106 (Office). Window locations shall be coordinated with exterior wall panels.

B. Relocate elevated instructional platform in Room 109 (Classroom) from East wall to West wall. Relocate all electrical and communication requirements as required.

***1**

1.1.4 All items listed in Section 01020 - *GENERAL DESIGN REQUIREMENTS* are included to define the scope of the complete design and construction requirements for this contract. The Contractor is responsible to develop a complete design, sufficient to fulfill the requirements of this RFP. Refer to SECTION 01021, DESIGN SUBMISSION REQUIREMENTS AFTER AWARD for design submittal requirements.

1.1.5 Drawings included in this RFP are provided as general guidance for design, construction and quality. It shall be the Design/Build Contractor's responsibility to verify the accuracy of the documents provided.

1.1.6 Any trade names identified are used to indicate a level of quality and/or compatibility required.

1.1.7 Affirmative Procurement is defined as the process of purchasing environmentally preferable products, especially products manufactured from

recycled and reclaimed materials. The United States Environmental Protection Agency (USEPA) has designated 54 guideline items in the Comprehensive Procurement Guideline (CPG) III for mandatory procurement. These CPG products are products that are or can be made containing recycled materials. A current detailed listing of these products and recycled content requirements can be found on USEPA's web site at <http://www.epa.gov/cpg/products.htm>. In the CPG, the USEPA organizes these items into 8 product categories as follows:

1. Construction Products
2. Landscaping Products
3. Non-paper Office Products
4. Paper and Paper Products
5. Park and Recreation Products
6. Transportation Products
7. Vehicular Products
8. Miscellaneous Products

1.1.7.1 The Design/Build Contractor is required to research, propose, and utilize these designated products, and any other recycled-content products available in the market place. CPG products with the highest percentage of recovered materials practicable shall be utilized, unless otherwise specified, or if one or more of the following exemptions apply:

1. Does not meet appropriate performance specifications.
2. Is not available competitively (from two or more sources).
3. Is not available within a reasonable time frame.
4. Is only available at an unreasonable price.

1.1.7.2 The contractor shall certify that the percentage of recovered materials to be used in the performance of the contract will be at least the amount required by applicable specifications or other contractual requirements, and shall also estimate the percentage of total material utilized for the performance of the contract which is recovered material. If CPG products are not utilized, the contractor shall provide written explanation and documentation as to why the products were not used.

PART 2 - SITE REQUIREMENTS

2.1 EXISTING SITE CONDITIONS

2.1.1 The project site is located in Area A, bound by Skeel Avenue on the south, Communications Boulevard on the east, Newark Street on the north and Building 879 on the west. The site is relatively flat and has an old building slab and footings remaining. Existing asphalt and concrete paving surrounds most of the area around the existing building slab. Base Civil Engineering currently uses the site as an outside storage area.

2.1.2 Contractor shall remove the existing concrete building slab, footings, foundations, concrete and asphalt paving, and any other existing structures

within the project site. The Contractor shall remove the existing entrance pavement to the construction site from Newark Street as shown on the plan.

2.1.3 A topographic survey has been performed. The site has approximately one meter of total relief across the site. The survey information is shown on the existing site plan. Existing utility locations are plotted on the existing site based on field observations or from existing utility plans. Contractor shall confirm all utility locations prior to beginning any work on the site.

2.1.4 A preliminary geotechnical analysis has been performed. A summary of preliminary findings indicates the following:

- a. The new building site includes asphaltic concrete and concrete (from existing roadways) Asphaltic concrete is 2" thick +/- with a 6" +/- granular base. Concrete is 6" +/- thick with a 3" +/- granular base.
- b. The new building site includes an existing building foundation and floor slab. Floor slab is 6-1/2" +/- thick with a 6" granular base.
- c. Existing Fill soils were encountered at the south end of the new building site. Fill should be considered uncontrolled and not suitable for direct foundation support. Remove any uncontrolled fill and replace with structural fill.
- d. Column and wall foundations bearing within the natural undisturbed soils or upper medium dense granular outwash soils can be designed for net allowable bearing capacities of 4,000 and 3,000 psf respectively.
- e. Boring logs are provided at the end of this specification section. Contractor shall use the boring log data to establish the appropriate depth of excavation to reach suitable undisturbed soils for the foundation and building floor slab. Contractor shall provide structural fill as required to establish final grades for construction. The boring logs are not intended to replace the Contractor's responsibility to perform an independent geotechnical analysis as required herein.

The D/B Contractor is responsible to confirm the information provided and do any additional investigation or analysis to confirm the existing soil conditions and provide appropriate recommendations for the building design. The Contractor shall conduct an independent geotechnical analysis and will be completely responsible for the building foundation design.

2.2 SITE PREPARATION

2.2.1 All existing paving, building slabs, building footings, paving materials, drainage structures and piping, vegetation, debris, and surface soils containing organic materials shall be removed from the construction area and removed from the site. Suitable topsoil shall be stockpiled for use in final grading. During stripping and rough grading, positive surface drainage shall be maintained to prevent the accumulation of water.

2.2.2 The exposed sub grade in the building and pavement areas shall be proof rolled to detect unsuitable near-surface soil conditions. Proof rolling shall be done after a suitable period of dry weather to avoid degrading an otherwise acceptable sub grade. Proof rolling shall be done with a heavily loaded tandem dump truck or similar approved construction equipment. Soft, organic, plastic, or excessively wet soils shall be excavated and replaced with compacted backfill. Contractor shall have his Geotechnical Engineer inspect the subgrade and observe / supervise proof rolling operations.

2.2.3 Sediment and erosion control measures shall be required to be installed and maintained by the contractor for the duration of the construction.

2.2.4 Repair existing surrounding pavement and site that is disturbed or damaged during the project construction.

2.2.5 Provide any required additional fill or topsoil necessary to establish the required finish grades.

2.2.6 The existing overhead steam line from building 10867 to 10879 shall be removed. For bidding purposes, the Contractor shall assume the steam line is insulated with Asbestos Containing Material (ACM). Test insulation for ACM. If it is determined to be ACM, remove and dispose of per the requirements of section 02085.

2.3 GRADING

2.3.1 Before any required filling operations begins, representative samples of the proposed fill material shall be tested to determine the maximum dry density, optimum moisture content, natural moisture content, gradation, and plasticity of the soil for quality control during grading compaction operations.

2.3.2 All compacted fill should be constructed by spreading satisfactory material in loose layers not more than 200 mm thick and compacting per the specifications and the geotechnical report.

2.4 SITE ASPHALT PAVING & CONCRETE CURBS

2.4.1 The extent of paving shall be as indicated on the drawings. A new asphalt drive, asphalt parking area, and concrete curbs shall be provided to maintain proper drainage and service the new building.

2.4.2 All materials for the paving shall be in accordance with the latest edition of the Ohio Department of Transportation Construction and Materials Specifications or in accordance with the specifications herein whichever is more stringent.

2.4.3 All paving methods and paving equipment shall be in accordance with the latest edition of the Ohio Department of Transportation Construction and Materials Specifications.

2.4.4 All paving shall be performed to drawing detail "heavy duty" paving section to permit access by delivery and maintenance vehicles at the front and rear of the building.

2.5 STORM DRAINAGE

2.5.1 Surface drainage for the site shall be modified as shown on the plans. Existing storm water flows to the north and to the west from this site into two separate storm sewerage systems. Modifications will affect structures associated with both existing storm drainage systems. Existing storm drainage to the east will not be affected by project.

2.5.2 Design and sizing of storm sewer system shall be based upon the Rational Method using a 25-year storm frequency. Sizing of pipes and structures will not need to include upstream flows. The minimum size of storm sewers shall be 300 mm in diameter.

2.5.3 Existing storm drainage structures and associated piping shall be removed to the limits indicated on the plans. Contractor shall backfill the excavated

areas with satisfactory fill material in layers not exceeding 200 mm thick and compact per the specifications and referenced geotechnical report.

2.5.4 Contractor shall adjust existing storm drainage structures to grade as indicated on the plans.

2.5.5 NPDES permit and Storm water Pollution Prevention Plan:

- a. Contractor shall make application for all appropriate EPA plan approvals as required for the proposed modifications to the existing storm water systems.
- b. Contractor shall submit five (5) copies of the following information to 88 ABW/EMY:
 - I. Plans and profiles of the proposed storm water modifications locations of adjacent and intersecting utilities, design utilities, design details, and construction specifications.
 - II. Completed EPA forms and appropriate fees.
 - III. Application fees

The 88 ABW/EMY will submit the documents to the EPA after receipt from the Contractor. It normally takes four weeks for approval from the EPA. Questions should be directed to Jerry Merryman at 88 ABW/EMY (937-257-5536).

2.6 SANITARY SEWER

2.6.1 Sanitary sewer for the new construction will be provided by connection to an existing manhole on the site as indicated on the plans.

2.6.2 Approval is required for the sewer tap-in to the existing sanitary sewer system. Contractor shall submit all necessary forms, plans, specifications, and fees to 88 ABW/EMY. Questions should be directed to Jerry Merryman at 88 ABW/EMY (937-257-5536).

2.6.3 Contractor shall verify that the existing sewer main on the site is serviceable. Contractor shall flush the main to remove any debris or blockages.

2.7 WATER DISTRIBUTION

2.7.1 Water for the new construction will be supplied by an 8-inch water main as indicated on the plans. The new main will be connected to an existing 10" CIP water main that lies on the east side of Newark Street. Contractor shall coordinate in advance the tap into the existing main with the Contracting Officer.

2.7.2 An Ohio EPA plan approval is required for the extension of the water main. Contractor shall submit five (5) copies of the following information to 88 ABW/EMY:

- a. Plans and profiles of the new water main including locations of adjacent and intersecting utilities, design utilities, design details, and construction specifications.
- b. A completed Ohio EPA "Water Supply Data Sheet" and: Fee Worksheet"
- c. Application fee, calculated at 0.20% of the water main construction cost plus \$100.00.

2.7.3 The 88 ABW/EMY will submit the documents to the Ohio EPA after receipt from the Contractor. It normally takes three to four months for approval from

the Ohio EPA. Questions should be directed to Jerry Merryman at 88 ABW/EMY (937-257-5536).

2.7.4 New 8-inch water main shall be constructed with shut off valves, a post indicator valve, and fire and domestic water connections to the building.

2.8 GAS DISTRIBUTION

2.8.1 None is required.

2.9 HEATING STEAM

2.9.1 Steam service for the building will be routed from an existing steam pit as indicated on the plans. Route new steam and condensate lines in shallow trench construction to the building as indicated. Contractor shall coordinate, in advance, the tap into the existing main with the Contracting Officer.

2.10 ELECTRICAL SERVICE

2.10.1 Building electrical service will be provided from the existing 12470-volt medium voltage overhead service line located along Newark Street (see drawings).

2.10.2 Provide a new 12470: 480Y/277V pad mounted transformer. Provide 15kV riser to pad mounted transformer. Provide fused cutouts and lightning arresters on pole for new riser. Extend 480Y/277 volt service feeder in underground duct bank from the existing pole to the building as indicated.

2.10.3 The trench shall have excavation warning tape installed 1'-0" above the conduits. Contractor shall coordinate in advance the tap into the existing overhead 12470-volt service with the Contracting Officer.

2.11 COMMUNICATIONS CONDUIT

2.11.1 Communication service to the building shall be routed underground in conduit as indicated.

2.11.2 Provide 50 pair Category 6 telephone / data service cable and 6/12 fiber optic LAN service in one 4" PVC concrete encased duct bank from existing communications manhole to the building as indicated.

2.11.3 The trench shall have excavation warning tape installed 1'-0" above the conduits. Contractor shall coordinate in advance the tap in the existing communications manhole with the Contracting Officer.

2.12 UTILITY CONNECTIONS

2.12.1 All connections of utilities to existing services shall be requested in writing and shall be approved by the Contracting Officer.

2.12.2 Existing utility shutdowns shall be requested in writing and approved by the Contracting Officer. Utility interruptions may be required to be performed during the weekend (Friday, 6:00pm to Monday 6:00am).

2.13 LANDSCAPING

2.13.1 Site & soil preparation, finish grading, placement of topsoil, seeding and watering are to be included in the basic site requirements independent from the landscape / plantings requirements.

2.13.2 Landscape design, including but not limited, to selection and placement of plant materials will be required as part of the D/B Contractor's design responsibility.

2.13.3 Plantings shall be selected from the Plant Materials Schedule Drawing. Quantities of plantings to be included in the landscape design and installation are as follows:

- a. Fifteen (15) -2" caliper deciduous trees
- b. Fifteen (15) - 5-6 ft. evergreen trees.
- c. Thirty (30) - 18" to 24" shrubs
- d. Thirty (30) - 36" shrubs
- e. Fifty (50) - 12" spread ground cover
- f. Twenty (20) - 18" spread ground cover.

2.13.4 All planting beds shall be mulched upon final completion of plantings.

2.13.5 Plant materials shall be adjusted in the field to prevent conflicts with existing and proposed utility lines. It shall be the contractor's responsibility to identify and locate all utility lines prior to plant material installation. The contractor shall be responsible for repair or replacement of any utility line damaged during plant material installation.

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2.14 Chain Link Fence

2.14.1 New chain link fence shall be 10ft. high zinc coated. Fence fabric shall be ASTM A392, Class 1 with a minimum coating weight of 2.0 ounces of zinc per square foot of coated surface. Fence posts shall be maximum 10ft. on center, ASTM F 1083, zinc coated. *1

PART 3 - GENERAL CONSTRUCTION REQUIREMENTS

3.1 HAZARDOUS MATERIALS

*1

3.1.1 NOT USED.

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3.1.2 Asbestos Containing Materials (ACM): The existing overhead steam line on the site is suspected to be insulated with ACM. See paragraph 2.2.6.

3.1.2.1 Asbestos Containing Material (ACM): In the event that suspect ACM not previously identified is encountered, the contractor shall immediately stop work in that area and notify the Contract Administrator.

3.1.3 Lead Containing Paint (LCP): There is no known LCP at the new building site.

3.1.4 Mercury Containing Lamps (MCL): There are no MCL at the new building site.

3.3 BUILDING CLOSURE

3.3.1 Exterior Elevations:

3.3.1 The Fully Contained Small Arms Range is the first building in an overall program to create a new 88 Security Forces Squadron Complex. The elevations

provided with this RFP extend an architectural character established by the AFMC Headquarters and administration buildings located near the adjacent Gate 12B entrance.

3.3.2 The RFP concept elevations are included to provide definitive direction for the development of a Final Design for this project. The concept provided shall be developed without deviation from the architectural character established by the design. The D/B Contractor shall fully develop the Construction Documents necessary to implement this Concept Design.

3.3.2 Precast Panels:

3.3.2.1 Exterior walls shall be constructed of precast concrete panels, fabricated off-site. Precast concrete wall panels shall be designed and detailed as indicated on the drawings.

3.3.2.2 The design of the precast panels shall insure that all requirements (panel thickness, panel size, fastening and structural connections) for transportation, erection and installation without cracking, breakage or damage are addressed.

3.3.2.3 Cornice elements and wall bases may be accomplished with additional elements or formed in the concrete casting.

3.3.2.4 The color and finish shall match the exterior precast panels of Warrior Hall, Building 262.

3.3.2.5 Exterior insulation and finish systems (EIFS) are not permitted.

3.3.2.6 All exterior precast walls shall be furred-out on the inside with 92mm by 20 gage metal studs spaced at 610mm on center. Provide R-11 fiberglass batt insulation between studs the full height to underside of the roof deck. Provide a 6-mill thick sheet vapor retarder and 16mm thick gypsum board. Tape gypsum board joints, mud, sand smooth and paint as indicated.

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3.3.3 Roof:

3.3.3.1 The structural roof **over the Firing Ranges** shall be a **lightweight concrete deck** for controlling the negative air pressure within the building and for suppressing the noise of gunfire. **The remainder of the building shall be metal decking without the concrete.** The weathering and finished roof shall be a **non-structural standing seam metal roof system (SSSMR)**, concealed fastener system. The roof structure system shall slope toward the roof drains. Provide a 1-90 approved system with a 20 year weather tight warranty.

3.3.3.2 The concrete roof shall be comprised of steel decking spanning over steel joists with a lightweight concrete slab. All penetrations shall be sealed airtight so as to allow regulating of air-pressure inside the building. Any attachments and anchoring to the concrete shall be such that no cracks or voids will occur.

3.3.2.3 Roof insulations shall be R-21 rigid, polyisocyanurate boards mechanically anchored to the concrete slab **over the Firing Ranges and to the steel decking over the remainder of the roof.** Provide a rubberized ice and water-shield on top of the insulation boards before setting the roofing bearing plate and seam clips.

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3.3.3.4 The **non-structural metal roofing** shall be laid on top of the rigid insulation and provide anchorage strong enough to hold down the metal panel system to test positive for an uplift classification of 90. Roof panel seam-clips (hold-down clips) shall be anchored directly into the concrete slab.

3.3.3.5 Roof panels shall be a minimum thickness of 22 gage. The sheet steel shall be of an alloy coating that is 55% aluminum, 1.6% silicon and the balance zinc, nominal percentages by weight. The coating shall be applied by a hot-dipped process. The panel system shall be functional for ¼" per foot or greater slope with standing seam heights of 63.5mm or higher. No battens permitted. Provide factory applied fluoropolymer enamel finish, color to match Sherwin-Williams SW2009.

3.3.3.6 Roof sheathing is to be provided over the entire roof surface under the 4759 UL Class 90 design permits. *1

3.3.4 Roof Access:

3.3.4.1 Two roof ladders and access hatches shall be provided inside the building.

3.3.5 Windows:

3.3.5.1 Frames for the windows shall be thermally broken aluminum for 1-inch thick insulated glass units. The profile shall be nominal 44.5mm to 51mm wide face by 114mm to 127mm deep, be exterior glazed and have a face cap of not more than 19mm deep. The frames shall have a Kynar factory finish (to match Devoe IM50D). All windows are in "punched" openings. Part of the window shall have an operable unit in the lower one-third of height.

3.3.5.2 The glass unit shall have an exterior glass pane 6.4mm thick laminated glass. The glass unit shall be Low-E and tinted bronze with a U-Value for Winter Night-K=1.74; Summer Daytime-K=1.88 Shading Coefficient=0.45 and Solar Heat Gain Coefficient= 0.39

3.3.6 Doors and Frames:

3.3.6.1 Exterior steel doors (at service and storage areas) shall be Grade-II, heavy duty, G60 galvanized, insulated and painted to match Devoe IM50D. Door sheet faces shall be 16 gage. All double doors shall be provided with a removable astragal (center jamb) and weather-stripping.

3.3.6.2 Frames shall be 14 gage, G60 steel and painted to match Devoe IM50D. Provide continuous rubber-bulb weather-stripping around frames, and provide rubber bottom seals on doors.

3.3.6.3 Coiling overhead doors shall be Factory painted to match Glidden 79-63, insulated, electrically operated and weather-stripped. The door bottom shall have a neoprene seal that will fit tight to the floor slab. The door weather-strip shall be continuous neoprene and fit airtight against the door. The door opening head shall be provided with a neoprene seal that is airtight.

3.3.7 Storefront System:

3.3.7.1 Frames for the windows shall be thermally broken aluminum for 25mm thick insulated glass units. The profile shall be nominal 44.5mm to 51mm wide face by 114mm to 127mm deep, be exterior glazed and have a face cap of not more than 19mm deep. The frames shall be Kynar factory finish (to match Devoe IM50D).

3.3.7.2 The glass unit shall have an exterior glass pane 6.4mm thick laminated glass. The glass unit shall be Low-E and tinted bronze with a U-Value for Winter Night-K=1.74; Summer Daytime-K=1.88 Shading Coefficient=0.45 and Solar Heat Gain Coefficient= 0.39

3.3.8 Exterior Metals:

3.3.8.1 All exterior metal surfaces shall be finished to match Devoe IM50D. This includes louvers, window frames, doors, door frames & associated framing, and other miscellaneous exposed metals. Provide factory applied baked on finish.

3.3.9 Ornamental Gates:

3.3.9.1 Access openings in the mechanical screen walls shall be by way of ornamental gates. These gates shall be jamb mounted within the opening with hinges mounted to imbed plates. One leaf of the double-gate opening shall be provided with a door lever and locking mechanism designed for all weather conditions. The second leaf is to be provided with a flush bolt extended down into a concrete encased strike. Gate material shall be aluminum or stainless steel with the intent that maintenance is to be a minimum and rust is to be a non-issue. The design of these gates shall be by the D/B team and accepted by the base. Locks shall be keyed to Base standard "BEST" system.

3.4 INTERIOR BUILDING CONSTRUCTION

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3.4.1 Interior Doors:

3.4.1.1 Hollow Metal door types are as follows:

REGULAR DOORS - Those doors that are not shown in the Door Schedule to be Sound Rated, Sound Control or Pressure Control shall be Level 2, Heavy Duty (18 gage face sheets, also known in the industry as Grade II). Refer to the door schedule for fire rating and seal requirements.

SOUND RATED DOORS - Doors and jamb "assembly" with an STC rating, which is required to be met by the manufacturer of sound rated doors and jamb assemblies. This door may also be "Pressure Control" door and/or fire rated.

SOUND CONTROL DOOR - This is a non-STC-rated door which has insulated cores and has hardware to aid in sound control. This door is to be Level 3, Extra Heavy Duty (16 gage face sheets, also known in the industry as Grade III). It may be fire rated; refer to the door schedule.

PRESSURE CONTROL DOORS - This is a door which has hardware that will provide a pressure seal. The pressure is defined in the mechanical section. This door is to be Level 3, Extra Heavy Duty (16 gage face sheets, also known in the industry as Grade III). It may also be fire rated or Sound Rated per the door schedule.

Reference the door schedule for additional requirements.

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3.4.1.2 NOT USED.

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3.4.1.3 All steel frames are to be of 14 gage steel.

3.4.1.4 Solid core wood doors shall receive a plastic laminate finish.

3.4.1.4 Door Hardware shall be standard weight stainless steel (US32D). All locks shall be compatible with Base Standard - "Best" system.

3.4.2 Interior Windows:

3.4.2.1 The only interior windows are located between the range and the range control rooms. These hollow metal steel framed windows shall be 'sound reduction' enhanced. Provide a thermally broken steel frame with a continuous neoprene seal between the two separate parts of the frame. Provide two panes of glass separated by a removable center stop (not a rabbit). The center stop shall be a channel 38mm x 38mm (min width) filled with silicone and set onto the frame. Provide a plumbed light of 9.8mm thick laminated clear, glass on the range control room side. And, provide a sloped pane of 12.7mm thick laminated clear glass on the firing range side. Provide 25.4mm x 57mm steel channel removable stop filled with silicone and set on the outer side of the panes of glass. Glass shall not touch any metal but be separated continuously by and set in, continuous beads of silicone. Window unit must be 57 STC (minimum) and be the product of a company regularly engaged in producing windows to reduce transmitted sound.

3.4.3 Interior Partitions:

3.4.3.1 Metal Studs and Gypsum Wallboard: Metal studs shall be 41.3mm by 92mm minimum G60 hot dipped galvanized steel, 20 gage before galvanization and spaced at maximum 406mm on center at interior partitions. Partitions shall receive 16mm thick boards. Ceilings and interior soffits/bulkheads shall receive 12.7mm thick gypsum board. All gypsum board shall have tapered or beveled edges. Provide fire resistance rated type gypsum board at fire rated partitions. Provide moisture resistant type gypsum board at 'wet' walls (walls with water present, including base cabinets with sinks and drinking fountains). Provide 12.7mm thick cement boards on the 'built-up' shower walls and on their ceilings. If a fiberglass shower stall is specified, provide moisture resistant board in lieu of cement board. Drying areas adjacent to the showers shall receive moisture resistant type gypsum board on the walls and ceilings to be painted. All partitions and ceilings to receive ceramic tile finish shall receive tile backer boards as recommended by the gypsum board manufacturer. At full height partitions, extend the gypsum board and the sound insulation to underside of structural deck above. Provide a minimum of 63.5mm thick mineral fiber sound insulation between all studs (fit tight and secure with wire to prevent sagging).

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3.4.3.2 Concrete Masonry: Masonry partitions shall be as indicated on the drawings. These partitions shall be structurally reinforced with steel reinforcing bars as required by Codes/Regulations cited in this RFP. Doors, windows, frameless openings and outside corners shall receive bull-nose corner blocks. The masonry partitions shall receive horizontal joint reinforcement at 610mm on center vertically and be braced at the top of the partition according to Codes/Regulations cited in this RFP.

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3.4.4 Finishes:

3.4.4.3 Ceramic Tile: Shall be provided in all restroom areas and shall be a combination of 9.5mm thick thin set type, class III abrasion resistant, .5 maximum water absorption, .5 minimum static coefficient of friction, set with organic adhesive. The ceramic tile shall be provided in a minimum of three sizes (101.6mm x 101.6mm wall tiles and 50.8mm x 50.8mm floor mosaic tiles).

3.4.4.4 Bonded Terrazzo: Terrazzo shall consist of three complimentary colors with 20% of the lightest color, 60% of the medium color and 20% of the darkest color separated by brass dividers. Provide a wood base and depressed slab as required to accommodate the terrazzo.

3.4.4.5 Resilient Floors: Resilient flooring shall be VCT, ASTM F 1066 Composition I. 3 colors of VCT shall be used to create a pattern and design that is complimentary of the architecture the respective room. Base shall be rubber type, straight in carpeted areas and cove type base in all other areas.

3.4.4.6 Carpet: Shall be tile type, multi colored loop and should be of a pattern and color that conceals stains and traffic wear. Pattern to be non-directional, with no linear or strong geometric patterns. Provide direct glue, no pad broadloom. Carpet pattern shall be non-directional (no linear or strong geometric graphic). At Entry 101, provide recessed entry mat with drains.

3.4.4.7 Sealed Concrete Floors: Main range and the M60 machine gun range floors shall be sealed concrete.

3.4.4.8 Acoustic Tile Ceilings: Suspended acoustic tile ceilings shall be 610 mm x 1219 mm.

3.4.4.9 Painting: Shall provide semi gloss alkyd latex in all areas. One prime coat and one finish coat shall be provided. No Paints containing lead and Zinc Chromate or Strontium Chromate Pigments shall be used. VOC shall comply with applicable codes.

3.4.5 Toilet Room Partitions & Accessories:

3.4.5.1 Toilet stall partitions shall be ceiling mounted; the urinal screens shall be wall mounted and all to be stainless steel.

3.4.5.2 Provide, sanitary napkin disposal units, paper towel dispensers, mirrors, coat hooks grab bars, and trash receptacles. Type and size of dispensers shall be coordinated with WPAFB requirements.

3.4.6 Fire Extinguisher Cabinets: Fully recessed or semi-recessed fire extinguisher cabinets with a stainless steel and glass finish shall be provided.

3.4.7 Interior Signage

3.4.7.1 Interior Signage (Building, ADA, Departmental, Individual, Directories, and Function Space) shall comply with the Wright-Patterson Base Facility Standard included with this RFP.

3.4.7.2 Quantities shall be based on sign types from the Base Facility Standard, Appendix B, and as follows:

- a. I-1 Restroom: Required at each restroom location
- b. I-2 & I-3 Room Identification: Required at all major offices, classroom, Arms Cleaning, Weapons Maintenance, FACTS, Vault, Range Entry, Range Control Room, Firing Ranges.
- c. I-7 In/Out Directory: One required.
- d. I-9 Nameplate: Required at each workstation/office
- e. I-13 Fire Extinguisher: Required at each fire extinguisher location and as required by code.
- f. I-14 Freestanding Announcement Board: One required

- g. Service Identification Signs: Required at all telephones, janitor closets, and other service rooms.

3.5 FIRING RANGE

3.5.1 Firing Range Requirements (Main Range & M60 machine Gun Range):

3.5.1.1 Bulletproof Materials: Walls, floors and roof construction must be bulletproof. Interior range walls construction shall be grout filled concrete masonry units (CMU) or reinforced 3500-psi cast-in-place concrete. Minimum wall thickness for CMU construction is 300mm and 200mm for cast-in-place concrete. Wall height and construction shall be coordinated with the ceiling baffle system design to accommodate safe deflection and direct fire from a 7.62mm round. Walls shall be unpainted, sealed concrete. Cover sidewalls at the bullet trap with steel plate of the same thickness as the bullet trap. Steel plate shall extend a minimum of 7010mm forward of the leading edge of the bullet trap. Floors shall be flat sealed reinforced concrete suitable for a range application. Floor shall be a continuous pour with a smooth, dense surface. Saw cut control joints in the floor as appropriate. Construction shall be suitable for frangible ammunition.

3.5.1.2 Openings: No door, window or other opening, except as required for forced air ventilation is allowed forward of the firing line. Conceal all pipes, conduits, etc. in the walls, floor or ceiling.

3.5.1.3 Firing Lanes: Main Range Firing lanes shall be 1219.2mm wide (4'-0") and 25m long (82'-0"). Machine Gun lanes shall be 1828.8mm wide (6'-0") and 25m long (82'-0"). Provide a safety lane between the end firing position and the sidewall. Number each firing position from left to right as you face the target position. Numbers shall be of sufficient size and design to be clearly legible from any position in the Range Control Room. Alternate the colors at each numbered station with white letters on black placards and black letters on white placards.

3.5.1.3.1 The multi-use range uses 273,850 rounds / year. The 5.56 ball = 154,000 rounds; The 9mm ball = 119,100 rounds; The 12 guage 00 buck = 750 rounds.

3.5.1.3.2 The M60 Machine Gun Range is used an average of 15 hrs./month. Anticipated annual usage is 55,000 rounds/year. M60, 7.62mm ball, = 40,000 rounds. M249, 5.56mm ball = 15,000 rounds.

3.5.1.4 Horizontal Safety Ceiling: Main range and the M60 range shall have a safety ceiling above the firing line area. The ceiling (shield) shall be of assembled out of, steel standard lengths and widths and extend 3658mm in front of the firing line and 4572mm behind to the wall. This ceiling shall safely deflect a direct hit from a 7.62mm round. Construction shall be suitable for frangible ammunition. Construction may be of steel and plywood or steel and an acoustical material suitable for the application. Coordinate ceiling with the radial plenum for efficient airflow.

3.5.1.5 Ceiling Baffles: The remainder of the ceiling down range from the *Horizontal Safety Ceiling* shall be provided with ceiling baffles used to prevent direct fire into the roof structure, lighting, etc. by restricting the rounds to down range travel. Baffles shall be suspended from the ceiling. The angle, floor Interval and quantity of panels shall be determined by the ceiling height, range length and shooting activity. The baffle located immediately in from of the bullet trap shall be a steel guard to redirect bullets into the trap. The

baffles shall be of 500+ BHN (Brinell Hardness Number, the higher the number the harder the steel) 10mm thick (minimum) or Armor Plate/300 BHN, 12mm thick (minimum). Do not use steel, carbon steel plate or low alloy steel conforming to ASTM A242/A242M or A572/A572M. They lack adequate pitting resistance and deteriorate rapidly. Provide one sheet of 19mm and one sheet of 11mm plywood facing and sound absorbing material on the steel baffles.

3.5.1.5.1 Baffles shall be tested prior to installation. Test shall be performed with 7.62 mm ammunition. Construct test baffles prior to fabrication and installation of the final baffles. Test baffles shall not be installed in the range.

3.5.1.6 Dry Funnel Chamber Bullet Traps: Main range (pistols, rifles and shotguns) and the M60 (7.62 mm) machine gun range shall each be provided with a self-supporting Dry Funnel Chamber Bullet Trap. Other types of Bullet Traps (Wet Funnel, Escalator, Venetian Blind, rubber composite or granular, angled backstop) are not acceptable.

3.5.1.6.1 Each trap shall be rated, at a minimum, for handguns up to 45caliber, M16, M60 (7.62 mm/158-grain ball), M249 SAW (5.56 mm) machine guns at, 12-gauge shotgun slugs, rifles and frangible ammunition. Traps shall be steel plate treated to 500+ BHN (Brinell Hardness Number, the higher the number the harder the steel) 10mm thick or Armor Plate/300 BHN at 12 mm thick (minimum). Metal backstops, plates and traps shall conform to MIL-A-12560 Armor plate, steel, wrought, homogeneous, that has been heat-treated. Do not use steel, carbon steel plate or low alloy steel conforming to ASTM A242/A242M or A572/A572M. They lack adequate pitting resistance and deteriorate rapidly.

3.5.1.6.2 Traps shall be of low maintenance construction, suitable for high volume use, self-supporting, and prefabricated for on-site assembly. End plates and upper primary impact plates shall be included and integral to the trap. End plates will be provided for both wall ends of the traps such that any bullets fired along the walls will be directed into the trap. There shall be no bolts or fasteners exposed to direct or indirect line of fire.

3.5.1.6.3 Traps will be divided into spaces corresponding to the shooting lanes so that targets are approximately centered on their respective impact plates. No joint should be horizontal or located directly behind a target. The impact plates shall abut tightly or be fitted with cover plates at the joints. There should not be any gaps between the plates.

3.5.1.6.4 Trap deceleration units shall employ a mechanically driven active filtration system to capture and remove airborne lead particles within and surrounding the chamber. The trap deceleration unit should have 2-3 levels of filtration and/or a reverse pulse system to keep filters clean. System must be designed for the containment of airborne lead and provided by same manufacturer of bullet trap system.

3.5.1.6.5 The primary impact plates shall be positioned at an incline/decline angle (20 degrees from horizontal recommended) sufficient to reduce backscatter at the trap.

3.5.1.6.6 Each bullet trap shall be a contiguous, single element extending tight to the sidewalls. Bullet trap shall extend from the range floor to the highest bullet path expected from the firing range.

3.5.1.6.7 Steel-sheets constructed in a gently sloping funnel design shall direct rounds into a deceleration chamber. Bullet particles shall be deposited from the deceleration chamber into a collection system.

3.5.1.6.8 Projectile collection system shall have a convenient system mounted onto the collection chamber to deposit bullet particles in small buckets.

3.5.1.6.9 Containers shall meet all applicable State and Federal requirements for the transportation of hazardous wastes. Containers shall be weatherproof, corrosion resistant and air tight. Containers shall be interchangeable and suitable for reuse. Container size shall be limited to accommodate a maximum of 50 lbs when full.

3.5.1.6.10 Each bullet trap and its associated systems shall not introduce any chemical additive or material, or otherwise compound or alter the bullet waste product. The raw waste product shall not be rendered less suitable for the recycling process. Any introduction of toxic substances is prohibited.

3.5.1.7 Bullet Trap Lead Dust System: Provide a lead dust removal system (one for each firing range) at the bullet trap collection chamber to convey the particulate by high velocity air through ductwork to an outdoor high efficiency (90% minimum) HEPA filtration dust collection chamber. The dust collection chamber and the vacuum fan shall be located outdoor in the mechanical area behind the firing range. The collection chamber shall be capable of depositing the fallout particles in a steel drum that can be closed with a lid and shipped off site for proper disposal or recycling. System should be interlocked w/ other air systems and target/range control system to prevent startup of any components if pre-filters are approaching full rating.

3.5.1.8 Shooting Booths. The shooting booths are only found in the main range and they shall be constructed of clear, Lexan panels. The booth shall not extend more than 305mm in front of the firing line and 460mm behind the firing line to avoid restricting the view of the range officer. The booth is to be equipped with a drop-down shooter's shelf, individual target control unit, range condition signal light system, and interactive speakers connected to the range control room.

3.5.1.9 Target Carrier System: The retrieval system in the main range shall be a fully programmable target carrier that travels along an overhead steel track that provides a stable platform for target presentation. The target carrier can rotate the target in 180-degree direction, stop at 1-foot intervals, and contain on-board target light with built-in dimmer. The carrier shall be programmed and operated by a remote control unit in the range control room. Target rails shall be installed at a height above the floor in accordance with the Manufacturer's recommendation. Carrier shall be capable of handling various target frames and heights.

3.5.1.10 Target Control Systems: Each system (main range and machine gun range) shall be a PC-based, Windows 2000 application that can control the targets, security, ventilation and lighting systems. It shall allow range control personnel to write and store training scenarios, which can be downloaded to multiple or individual control units, or operated from a central range control room

3.5.1.10.1 Minimum requirements for each system: desktop computer, "Pentium 4 2.8Ghz processor, 1024MB of PC 1066 Rambus RAM, four (4) 120GB hard drives w/ ATA100 w/RAID backup, two (2) 450 mm LCD Monitors, Microsoft Windows 2000

operating system, Range interface adapter, CD-RW 48X16X48X, network printer, Range Interface Adapter, PC to RIA serial cable and CD Rom.

3.5.1.10.2 Systems shall allow either the range operator or individual shooter to operate the target system. Control system shall have two modes of operation; one mode for target movement/programming/testing that does not require operation of AHU's and one mode that requires proper AHU operation.

3.5.1.10.3 Individual Control Units shall allow for local shooter control. Shooters shall be capable of entering a sequence of commands for the target system to perform. An LCD display shall prompt the shooter for sequence events. Unit shall also be capable of operating in direct mode, i.e. without a program sequence.

3.5.1.10.4 The Range Room Control Consoles shall be desk top units with master power switch, signal bell switching, range timer system and, firing line security system, signal light system, target lighting control, range master call control and activities control. Each lane shall be represented by a switch on the control console allowing the range operator to select individual lanes for local control by the shooter while retaining control over the other lanes.

3.5.1.11 Audio / Visual Communications Systems: Main range and the M60 machine gun range shall each have an independent system that will allow it's respective range control room to call, listen and converse with individual shooter, a select group, or all shooters at one time.

3.5.1.11.1 The master station shall have a channel selection panel, talk/listen release switch, All-Call button, and volume controls for outgoing and incoming communications. It shall have the option of open voice speaker or handset. Console shall have an open voice speaker and handset for privacy. Communications from the main console will be initiated by engaging a talk/listen switch (push to talk, release to listen). Provide Windows 2000 operating system. System shall be capable of supporting the future addition of a hands free wireless headset system. The wireless system shall have all of the communications capabilities outlined for the fixed speaker system identified herein.

3.5.1.11.2 Each shooting station shall have an audio terminal in the shooting stall to receive and send voice communications. A call tone shall alert the shooter of a transmission from the Range Control Room. Call initiation by the shooter to the main console shall be by depressing a call button on the local terminal. An electronic tone is sounded on the main console and an LED channel selection light is illuminated. Shooter responds by hands-free operation.

3.5.1.11.3 Provide a Range Condition Signal Light System. System shall be located on each shooters stall. System shall consist of three colored lights, a range masters call switch and control from the main console. Lights shall be red, green and amber. System shall be interfaced with the Range Security System to activate the red light when there is a security violation.

3.5.1.11.4 Provide PA system (one for each range) operated from within its respective range control room. This PA system is independent of the building PA system operated via the telephone system

3.5.1.12 Lighting: Provide general, direct, task and special lighting as described herein General lighting levels shall be 50 foot-candles at 1220mm above the floor. Direct lighting shall provide 100 foot-candles on the targets. Task lighting should provide 60 foot-candles on the firing line. Area lighting

from behind the shooters shall be at least 50 to 100 fc from a fluorescent source.

3.5.1.12.1 All lighting shall be placed outside the line of fire.

3.5.1.12.2 Direct Target lighting shall be installed on swivel joints to allow for adjustment. Lights shall be located to provide the required illumination at each major target stop per lane (7m, 15m & 25m).

3.5.1.12.3 A small on/off light with a minimum luminance of 5 foot-candles shall be provided at each shooting booth.

3.5.1.12.4 Red & Blue Police Strobe Lights: Provide three Multicolor strobe-type police car lights (standard police cruiser light bar) located in the ceiling to simulate emergency conditions at night. These lights shall be installed above the ready line, centered between lanes 3 & 4, 10 & 11, 17 & 18. Units shall have an on / off control from the Range Control Room.

3.5.1.12.5 Lighting Method: The required method for range lighting is a continuous bank of fluorescent fixtures with supplemental halogen or a combination of these lights running the full width of the range. All fluorescent fixtures shall have PC compatible parabolic lenses to concentrate light on the horizontal plane and reduce glare on wall surfaces. Use fluorescent fixtures to illuminate the area behind the firing line.

3.5.1.12.6 Where fluorescent fixtures are used, select lights with a color-rendering index of at least 85 and a temperature index of 3500 Kelvin, or install other light sources to balance the colors.

3.5.1.12.7 Range, Firing Line, Ready Line and target illumination needs to be dimmable to satisfy training requirements at different light levels.

3.5.1.12.8 Safety Requirements: Lights must be installed behind the bullet trap to assist in maintenance and cleanup. Ensure that downrange lighting is interlocked with the ventilation system and that emergency lights, and "exit" and "Range in Use" signs are installed.

3.5.1.13 Test Fire Certification Requirements: The Contractor shall coordinate the requirement for a range test fire and certification to be performed by Government personnel. Test and certification shall be performed prior to Beneficial Occupancy by the Government.

3.6 OTHER REQUIREMENTS

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3.6.1 Arms Vault:

3.6.1.1 Vault construction shall be:

a. Walls shall be 200 mm CMU with No. 4 rebar through all cells and all cells grouted solid, with horizontal joint reinforcement at every course.

b. Floor shall be minimum 200 mm concrete reinforced with two grids (top and bottom) of # 4 bars on 225 mm centers both ways.

c. Roof shall be minimum 200 mm concrete with a minimum reinforcing as indicated above for the floor.

d. Miscellaneous openings (for duct work, etc) shall be protected by minimum 9.5 mm hardened steel rods vertical at a spacing of 100 mm maximum. Horizontal rods shall be spaced such that open areas do not exceed 0.02 sq m.

3.6.1.2 Vault Door: Provide a security vault door, GSA approved Class V with combination lock. Door lock shall be a GSA approved built-in three position changeable combination door lock meeting UL Standard 768 Group I (reference (g)). X0-8 locks are not acceptable.

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3.6.1.3 Provide an Intrusion Detection System (IDS) for the Arms vault. A balanced magnetic door switch shall be provided on the door. A Passive Infrared (PIR) motion detector shall be provided inside the vault. Provide an access keypad at the door. IDS alarm shall be transmitted via telephone line to the Security Police Headquarters. Provide an uninterruptible Power Supply (UPS) for the IDS system.

3.6.1.4 The vault shall have a separate storage area within that will secure ammunition. The ammunition room shall be woven wire fencing structure extending from the floor slab to the underside of the ceiling. The ammunition room shall have a sliding locking steel cage door with a pass through.

3.6.2 Degreasing Sink:

3.6.2.1 One stainless steel, single bowl scullery sink, with one drain board is to be provided. This sink will NOT have water supplied to it and will NOT have a drain line to the sanitary system. Provide a valved drainpipe to extend down to within 614mm from the floor to allow a bucket to be placed under the drain outlet. Provide a stainless steel shelf over the sink at 1524mm above the floor. Provide paper towel dispenser and hand soap dispenser above the sink. Coordinate with Plumbing in section 6.6.5.

3.6.3 Service Sink:

3.6.3.1 One stainless steel, single bowl scullery sink, with one drain board is to be provided. This sink will have hot and cold water supplied to it and a drain line that connects to the sanitary system. Provide a stainless steel shelf over the sink at 1524mm above the floor. Coordinate with Plumbing in section 6.6.5.

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3.6.4 Foot Grilles in Entry Vestibule 101

3.6.4.1 Aluminum Foot Grilles: 8'-0" by 10'-0", Standard foot grilles with extruded members, topsurfaced tread rails, and as follows:

- Tread Rails: Extruded-aluminum frame.
- Tread Rail Spacing" 1-1/2 inches (38 mm) o.c. with 1/8 to 3/16 inch (3 to 4.8 mm)_ wide openings between treads.
- Aluminum Finish: Clear anodized.
- Top Surface: Fusion-bonded, level cut pile nylon carpet insert, ¼ inch (6 mm) high, 28 oz./sq. yd. (950 g/sq.m)

3.6.4.2 Drainage Pit Applications: Provide manufacturer's special deep-pit frame and support extrusion system with intermediate support beams, sized and spaced as recommended by manufacturer for indicated spans and equipped with vinyl support cushions.

3.6.4.3 Provide manufacturer's standard 0.060 inch (1.5mm) thick, aluminum sheet drain pan with NPS2 (DN 50) drain outlet for each floor grille unit. Coat bottom of pan with protective coating recommended by manufacturer.

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PART 4 - COMPREHENSIVE INTERIOR DESIGN REQUIREMENTS

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4.1 GENERAL:

4.1.1 The design for all CID items outlined in Part 4 are to be included as part of the base bid. The procurement / installation of the items specified in paragraph 4.2 (Systems Furniture) and the acceptance, storage and installation of free-standing furniture (para. 4.3) is a bid option. Signage shall be provided under the Base Bid.

4.1.2 The CID shall include, Furniture, Freestanding Furniture, Interior Signage, audio/visual furnishings, wall hangings, window treatments and other elements necessary for a normal business environment. Any manufacturer references, style numbers, catalog numbers etc. referenced herein are for reference and quality information only. These references are not intended as a final product selection. The Contractor shall select the Freestanding Furniture from sources identified by the Contracting Officer after award.

4.1.2.1 The contractor shall provide the services of a professional interior designer to develop a Comprehensive Interior Design (CID) proposal that integrates the exterior architectural character of the facility with the internal layout, function and finishes. The design proposal shall include all fixtures, furnishings, displays and all items necessary to convey a continuous theme from the facility entrances through to the corridor and entry vestibules. Corridor ceiling improvements should be coordinated with the proposed lighting and preserve, as much as possible, the natural sunlight gained through elevelstory windows. One possible concept is to use architectural specialties such as architectural suspended ceiling systems to simulate range baffles at the vestibule and adjacent corridor. The interior design shall be subject to review and correction, as further indicated in Section 01021.

4.1.2.2 CID is not required for the range proper, the arms vault, arms cleaning, or weapons maintenance. However, color and finish boards for these areas shall be coordinated with the remainder of the facility.

4.1.2.3 the CID designer shall have knowledge of and experience with Government supply sources for furposes of selecting items to be purchased by the Government.

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4.1.3 The requirements outlined in the RFP are provided as a reference and guide to generally define the layout, quality, materials, and quantity of the CID items.

4.1.4 Refer to the drawings for general information regarding CID programmatic requirements. The RFP drawings indicate the general layout and quantity of items to be provided. The layout provided, is included for general guidance only and is not intended to represent a complete design. Contractor shall meet with the Government to review the general layout and further define the

programmatic requirements. The quantity of workstations will remain the same, however modifications to the layout will be required to further define and meet the programmatic needs of the building occupant.

4.1.5 Typical furniture product requirements are included at the end of Section 01020 for REFERENCE. This information is provided to assist in defining the quality and compatibility required in designing, procuring and installing new product for this Project. This information should not be considered a definitive cataloging of the furniture components required for this project.

4.1.6 Contractor shall review and use the following criteria in developing a CID package for this project:

ETL 90-7 Air Force Interior Design Policy (Oct 90)
AFMC Facility Quality Program (Apr. 96)
Wright-Patterson AFB Base Facility Standard
Air Force Center for Environmental Excellence, Interior Design
Publications (www.afcee.brooks.af.mil/DC/DCFORM.HTM)

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4.2 SYSTEMS FURNITURE (Bid Option)

4.2.1 General Information:

4.2.1.1 The procurement, delivery, installation and fit-up of all systems furniture (total of nine workstations) will be a Bid Option as defined by the solicitation bidding requirements. All design associated with the Systems Furniture shall be included as part of the Base Bid requirements.

4.2.1.2 Generic individual workstation "Typicals" are provided in the RFP for general guidance in the design and selection of the Systems Furniture. A complete design shall be developed applying the RFP "typicals" to the established building layout. The Contractor shall coordinate with the Government during design to develop the application of the "typicals" for the established footprint. (SEE ATTACHED TYPICALS AND COMPONENT LISTING AT THE END OF THIS SECTION.)

4.2.1.3 This specification establishes the minimum requirements for the acquisition of all labor and materials required for the installation of a complete and usable system of demountable and relocatable workstations composed of a panel-based system, components, hardware and accessories.

4.2.1.4 Installation shall include all items necessary to provide a complete and functioning work environment including accessories, work surfaces, shelves, bins, pedestals, but not limited to all power connections between workstations and the building electrical distribution system.

4.2.1.5 The summary of the workstations and components for the total installation is as follows: See attached sheets for workstation types/typicals.

4.2.1.6 The systems furniture workstation requirements/attributes shall be in accordance with the furniture typical shown in the contract drawings.

4.2.1.7 The Contractor shall be responsible for all design, furniture acquisition and installation costs associated with bringing into compliance with the contract drawings and specifications all differences not identified by the Contractor or approved by the Government.

4.2.1.8 The completed installation shall comply with the current edition of the Uniform Federal Accessibility Standards, the Americans with Disability Act (ADA), and NFPA Life Safety Code.

4.2.2 General Product Requirements:

4.2.2.1 The panel system shall provide the work surface and establish the structural foundation of the workstation. Additive components shall accommodate the needs for storage, privacy, power cable distribution, and accessorization.

4.2.2.2 All workstations shall be fully flexible to permit easy assembly and disassembly by Government personnel. Back-to-back workstations shall be assembled in such a manner so that components may be completely removed from one side without disturbing the other side. Station configurations should conform to standard manufactured components. The system shall be capable of being installed on top of finished flooring without penetrating the finished floor or using floor fasteners.

4.2.3 Warranty:

4.2.3.1 Refer to Section 12705 for performance and warranty requirements. Warranty conditions will not apply to materials or components which are damaged by abuse or misuse by the Government.

4.2.4 Training Program:

4.2.4.1 The Contractor shall train (one 8-hour session) Government personnel on installing, reconfiguring and maintaining the systems furniture. Training shall be provided for adjustable ergonomic features of the workstation components and seating. This training shall be provided on site at no additional cost to the Government and at a time mutually agreed upon between the Contractor and the Government.

4.2.5 Work Surfaces:

4.2.5.1 Work surfaces shall be available in nominal of 600 mm and 750 mm. (Verify and list all required widths, but permit reasonable dimensional tolerances where possible). Work surface height shall be 713 mm to 750 mm from the finished floor.

4.2.5.2 Work surfaces shall be available in a variety of lengths from 600 mm to 1950 mm all in nominal thickness not to exceed 38 mm.

4.2.5.3 Work surfaces shall be either fully supported from panels or supported jointly by the panels, pedestals or furniture end panels.

4.2.5.4 Work surfaces shall have a finished top surface of high-pressure plastic laminate or wood veneer and shall have a smoothly furnished underside. End panels and back panels shall be a factory baked-enamel finish.

4.2.5.5 The work surface shall not be affected by ordinary household solvents, acids, alcohols, or salt solutions and shall be capable of being wiped clean with ordinary household cleaning solutions.

4.2.5.6 Work surfaces shall be capable of accepting adjustable keyboard and mouse pads. The keyboard and mouse pad should fully recess under work surface

and extend to give user full access to the keyboard and mouse pad (approximately 250 mm). Side travel rotation shall be a minimum of 300 mm and 375 mm in each direction, with 180 degrees swing. Keyboard tray is to have negative and positive tilt capability.

4.2.5.7 Grommets or access channel must be able, where required, to provide access to the work surface for cable and electrical cords. Provide a minimum of one grommet per work surface.

4.2.5.8 Abutting core units shall mate closely and be at equal heights when used in side-by-side or side-to end configurations in order to provide a continuous and level work surface.

4.2.6 Pedestal and Lateral Files

4.2.6.1 Pedestals shall be freestanding or support work surfaces. Pedestal widths shall be from 175 mm to 450 mm.

4.2.6.2 Leveling glides shall be provided on base of pedestals and lateral files to install pedestals on uneven floors.

4.2.6.3 Drawers, lateral file drawers and drawer pedestals shall be of steel construction with a factory-baked enamel finish. Color shall match metal trim. Drawer faces may be of steel construction and shall be securely attached with screws to the steel drawer front. Drawer faces shall coordinate with metal trim or selected wood veneer.

4.2.6.5 All file drawers shall have full-extension ball bearing suspensions that does not expose user to grease or edges/corners that will damage users clothing.

4.2.6.6 All 152 mm box drawers shall have a minimum of one adjustable drawer divider.

4.2.6.9 All 305 mm file drawers shall be equipped with an adjustable file compressor.

4.2.6.7 All overhead cabinet doors should be able to be operated by a seated person. Equalizers that prevent doors from pinching when operated from other than center balance points are preferred.

4.2.8 Locks & Keying:

4.2.8.1 All drawers, overhead cabinets, and file bins shall have keyed locks, unless otherwise noted.

4.2.8.2 Changeable lock cylinders shall be provided with a minimum of 100 different key options.

4.2.8.3 All locks within a workstation shall be keyed alike. All workstations shall be individually keyed.

4.2.8.4 All central wall and storage units which are grouped together but are not part of a workstation shall be keyed alike, unless otherwise noted.

4.2.8.5 Keys and lock cylinders shall be numbered for ease of replacement. A key schedule shall be submitted to the contracting officer at project completion.

4.2.8.6 All locking equipment must be clearly labeled/tagged as to the workstation, key number and its location.

4.2.9 Other Components and Accessories:

4.2.9.1 The Contractor shall provide all brackets, supports, hangers, clips, connectors, adjustable feet, cover plates, stabilizers and other miscellaneous hardware required to provide a completed assemble.

4.2.9.2 Wall Tracks shall be provided in pairs where components are required to hang on wall surfaces. Tracks shall be of heavy-duty extruded metal finish and color to match panel trim and shall be slotted on 25 mm centers in heights required. (Slot spacing should match slot spacing for all panels. Identify required heights.) Coordinator with Contracting Officer the necessary in-wall blocking necessary to support the wall hung components.

4.2.9.3 Paper Management Units shall be provided, one set-up in each office and workstation. These units shall, at a minimum, consist of a four to five slot diagonal paper storage unit and two paper trays (letter size). Unit shall be either freestanding or wall mount to rear of the core unit by pins inserted into the accessory rail. (Accessory rail length is to be a minimum of three to four feet. Finishes are to match open office furniture trim color). Accessory Rails shall be equal in length to the work surface and constructed of metal with a factory-baked enamel finish.

4.2.10 Electrical:

4.2.10.1 All connections within the electrical systems must be keyed. All electrical products/components must be UL (Underwriters Laboratories) listed.

4.2.10.2 Wiring harness shall be an eight wire, 3 single phase circuits for each group of four (4) workstations. This system should provide a separate neutral for each circuit, and an independent grounding conductor.

4.2.10.3 All primary raceways shall have capacity for three 20 amp power circuits and the equivalent of ten 25-pair communication cables. Secondary raceways shall have sealed raceways capable of distribution of three 20 amp power circuits.

4.2.10.4 All 750 mm and wider raceways shall have a minimum of two knockouts of three 20 amp power circuits.

4.2.10.5 Base covers shall be securely mounted to raceways but permit easy access to the raceway.

4.2.10.6 Primary raceway base covers shall not be secured by magnets.

4.2.10.7 End covers or connectors shall be provided as required and shall match the finish and color of the connecting primary and secondary raceways.

4.2.10.8 Each powered primary raceway shall have a minimum of two single duplex 15 amp grounded electrical receptacles.

4.2.10.9 All receptacles shall be commercial grade and identified easily by circuit number.

4.2.10.10 The contractor shall determine the number of circuits and the circuit capacity for all systems furniture workstation configurations.

4.2.10.11 Internal primary raceway-to-primary raceway-to-secondary raceway power connections shall be straight or flexible plug-in and plug-out grounded connections.

4.2.10.12 Power and communication wiring shall be supplied to the primary raceways either by top feed or base modules.

4.2.10.13 Base-feed modules shall supply power to the primary raceways by plugging into a receptacle (or slot on a single primary raceway). Module shall have a minimum four-foot whip for hard wiring to the building electrical system.

4.2.10.14 Communication cables shall feed through a flexible channel guard running the length of the primary raceway.

4.2.10.15 Components for vertical and horizontal wire and cable management and concealment system shall be available as indicated on the contract drawings and where use requirements dictate.

- a. Vertical wire managers and concealment system shall be available on all core units.
- b. Wire managers shall be prefinished and shall secure, conceal and accommodate outlet cords as well as electrical and communication wiring.

4.2.10.17 The entire electrical system shall use copper wiring, shall be Underwriters Laboratory listed, and shall meet the applicable requirements of the National Electrical Code.

4.2.10.18 A licensed electrician shall make all hard wire connections to the building electrical distribution system as shown on the contract drawings and in accordance with the National Electrical Code.

4.2.10.19 Where required, workstations communications wiring shall meet security separation requirements.

4.2.10.20 Contractor is to determine power distribution, outlet quantities and location requirements with contracting officer and user groups. A minimum of one duplex outlet per side for every powered 900 mm W core unit and two duplex outlets for core units 1050 mm and wider.

4.2.11 Task Lighting:

4.2.11.1 Task lights shall be provided for every workstation. Task lights shall be a standard component of the manufacturer's system furniture products.

4.2.11.2 Task light reflector shall be white for maximum reflection.

4.2.11.3 Task lights shall have structurally sound mounting which will prevent accidental removal but which can be easily removed and replaced.

4.2.11.4 All fixtures shall be Underwriters' Laboratory listed for use in the systems furniture configurations required.

4.2.11.5 Each fixture shall have an easily accessible on-off switch and one rapid-start ballast. Ganged fixtures or shared ballasts shall not be used.

4.2.11.6 All fixtures shall be provided with energy efficient ballasts and lamps. (Provide a list of lamps and identify sizes and coloration.)

4.2.11.7 All fixture diffusers, grilles or other covering shall be easily removable to permit cleaning and replacing.

4.2.11.8 Each fixture shall have a minimum six-foot factory installed heavy-duty electrical cordset with a grounded plug.

4.2.11.9 A vertical wire manager shall be available for each task light.

4.2.12 Communications Requirements:

4.2.12.1 All telephone and data connections and wiring throughout the systems furniture raceways shall be accomplished by the contractor's communications personnel.

4.2.13 Finish Materials:

4.2.11.1 Finishes shall be equivalent to the following materials:

- a. Work surface: Plastic Laminate with soft edge treatment.
- b. Work surface (all PO/Offices): Wood/Veneer with soft edge treatment.
- c. Desk Support Structure: Paint
- d. Utility Distribution Channels: Paint
- e. Overhead Cabinets and Supports (All Workstations): Paint, Painted on overhead doors or fabric doors.
- f. Overhead Cabinets and Supports (PO/Office): Wood/Veneer on overhead doors.
- g. Pedestals: Paint
- h. Pedestals (all PO/Offices), Wood/Veneer on drawer fronts.
- i. Keyboard Shelf: To be selected from manufacturers standard finish offering.
- j. All miscellaneous finish selections are to be coordinated.

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4.3 FREESTANDING FURNITURE ACCEPTANCE, STORAGE AND INSTALLATION (BID OPTION)

4.3.1 General:

4.3.1.1 The Government will purchase the Freestanding Furniture and have it delivered to the contractor. As part of the furniture option, the Contractor shall be responsible for the coordination of furniture delivery, receipt and storage of the furniture, checking all items for damage, correctness and completion of the order, unpacking, delivering, installing, cleaning, adjusting, and leveling all furniture, and cleaning up the job site. Additionally, the Contractor shall provide "as-built" documents of the final installation to the Government. All design associated with the Freestanding Furniture shall be included as part of the Base Bid requirements.

4.3.2 Submittals:

SD-04 Drawings; GA

4.3.2.1 At the project completion, the Contractor shall provide the Government with as-built drawings showing accurate installation locations with item numbers corresponding to those in the freestanding furniture schedule.

4.3.3 Delivery, Storage and Handling:

4.3.3.1 Acceptance At Site: For all Freestanding Furnishings, the Contractor shall examine furniture at site for damage or blemishes. Reject all substandard items. The Contractor shall check the furniture for completion of the orders and for correctness of the shipment. Correct all problems promptly to insure a smooth and timely installation.

4.3.3.2 Storage and Protection: For all Freestanding Furnishings, the Contractor shall provide heated and weather protected enclosures as required to protect furniture from damage due to warping, staining, moisture condensation or any other environmentally induced damage. Such storage shall be for a period not to exceed six weeks.

4.3.4 Project Conditions:

4.3.4.1 Environmental Requirements: For all Freestanding Furnishings, the Contractor shall not install until all finish work is complete and permanent HVAC system is in operation.

4.3.5 Installation:

4.3.5.1 Interface with Other Products: For all Freestanding Furnishings, the Contractor shall coordinate delivery and installation schedule such the installation occurs in a timely fashion without delays. The Contractor shall coordinate the installation with the government.

4.3.5.2 For all Freestanding Furnishings, the Contractor shall level all furniture, including tables and files and bolt all files in a row together.

4.3.6 Cleaning:

4.3.6.1 For each Freestanding Furnishings, the Contractor shall remove debris and packaging at the end of each day, clean furniture with commercial cleaners, remove any soiled spots, and replace furniture damaged beyond repair or cleaning.

4.3.6.2 For all Freestanding Furnishings, the Contractor shall level all furniture, including tables and files and bolt all files in a row together.

4.3.7 Protection:

4.3.7.1 For all Freestanding Furnishings, the Contractor shall protect furniture from damage and soiling until completion of project, by installing adequate cover of non-staining material.

PART 5 - STRUCTURAL REQUIREMENTS

5.0 BUILDING STRUCTURAL REQUIREMENTS:

5.01 General code provisions, dead, live, snow, seismic and wind loads shall be according to The International Building Code (IBC 2000).

5.02 The seismic Use Group and corresponding performance level will be:

Seismic Use Group: I Standard Occupancy Structure
Performance Level: Life Safety 1

5.1 Foundations: Foundations include all substructure elements supporting the facility and its equipment.

5.1.1 Prepare the foundation design in accordance with the D/B Contractor's independently verified Geotechnical analysis of the site soil conditions performed by a licensed geotechnical engineer. Preliminary geotechnical information indicates that uncontrolled fill may be encountered in some areas at a depth of approximately two feet. Contractor shall determine the extent of existing uncontrolled fill during his geotechnical investigation. Remove any uncontrolled fill and replace with structural fill. Replacement of uncontrolled fill will be addressed through a contract modification.

5.1.2 The foundation shall be designed according to the Foundation Design Criteria stated herein, including seismic, wind, live and gravity loads.

5.1.3 Foundation Design Criteria:

5.1.3.1 Foundations shall consist of reinforced pad concrete footings and continuous strip footings unless soil conditions require the use of a deep foundation system. All exterior footings shall be a minimum of 30" below grade.

5.2 Superstructure

5.2.1 The superstructure includes the above grade structural elements required for support of the floor and roof construction.

5.2.2 The structure shall be economical, durable, sustainable, and erected on a new building foundation.

5.2.3 The structural design of building components shall conform to the design requirements stated herein, including seismic, wind, live and gravity loads.

5.2.4 All floor construction shall be slab-on-grade over a compacted drainage layer and vapor barrier. Floor elevations may vary and may require the use of retaining structures to support elevated floor areas.

5.2.5 Light gauge framing supporting floors shall not be permitted.

5.2.6 Structural wall elements required for support of roof construction include steel columns, Precast structural concrete wall panels structural concrete wall panels and/or load bearing masonry walls. Walls will be required to function as architectural elements in addition to supporting the building loads.

5.2.7 Structural roof framing elements required for support of the roof construction includes special long span girder trusses (for firing range), open web bar joist and girders, and steel beams. The roof slope shall be in the structure. Slope may be provided by a steel truss system.

5.2.8 Roof deck over firing range shall consist of a 4-inch thick lightweight slab supported by a structural metal deck. The roof deck will also function as a diaphragm for building stability. The concrete roof deck shall provide support for a light gauge framing system to support the non-structural standing seam metal roofing. Minimum roof slope shall be 6:305 for all roof areas. All

metal decking shall be galvanized. The system shall be complete with expansion control joints including sleeved penetrations for services. Show method and frequency of attachment to structural framework

5.2.9 Roof deck over remaining structure portions shall consist of a structural metal roof deck that also functions as a diaphragm for building stability. The structural metal decking shall provide support for a light gauge framing system to support the raised rib metal roofing. Minimum roof slope shall be 0.25:12 for all roof areas. All metal decking shall be galvanized. The system shall be complete with expansion control joints including sleeved penetrations for services. Show method and frequency of attachment to structural framework

5.2.10 Masonry walls will be reinforced as required. Exterior wall elements in inhabited structures will employ one-way wall elements spanning vertically to minimize blast loads on columns.

5.2.11 Give special attention to control cracking in concrete masonry structures using the guidance contained in Table 1-1.

Table 1-1 Recommended Joint Control Spacing ^(a)

| Vertical Spacing of Joint Reinforcement With 2-#9 Wires ^(b) (in) | Maximum Ratio of Panel Length to Wall Height (L/H) ^(c) | Maximum Spacing of Control Joints ^(d) (ft) |
|--|---|---|
| None ^(e) | 2 | 18 |
| 16 | 3 | 24 |
| 8 | 4 | 30 |
| <p>^(a) Based on moisture-controlled, type I, concrete masonry in intermediate humidity conditions (ASTM C 90). The designer should adjust the control joint spacing for local conditions. The recommended spacing may be increased 6 ft. in humid climates and decreased 6 ft. in arid climates.</p> <p>^(b) Joint reinforcement will be cold-drawn deformed wire with a minimum 9-gauge longitudinal wire size.</p> <p>^(c) L is the horizontal distance between control joints. H is generally the vertical distance between structural supports.</p> <p>^(d) The spacing will be reduced approximately 50% near masonry-bonded corners or other similar conditions where one end of the masonry panel is restrained.</p> <p>^(e) Not recommended for walls exposed to view where control of cracking is important.</p> | | |

PART 6 - MECHANICAL

6.1 DESIGN CONDITIONS:

6.1.1 General: The D/B Contractor shall be responsible for detail load calculations and equipment selections during the design process. The loads and equipment sizing presented herein are based on preliminary block load calculations, and are intended to convey the extent of scope, and are not intended to identify specific design. D/B Contractor is responsible for

preparing an independent complete analysis and design for the building mechanical systems.

6.1.2 Administration Area:

- Indoor Summer, Occupied: 23.9°C db/45%RH
- Indoor Summer, Unoccupied: 30°C db
- Indoor Winter, Occupied: 21.1°C db
- Indoor Winter, Unoccupied: 15.6°C db
- Outdoor Summer: 31.7°C db/22.2°C wb
- Outdoor Winter: -15.6°C db
- Ventilation (Outdoor Air): ASHRAE 62-1999

6.1.3 Firing Range:

- Indoor Summer Occupied: 33.3°C db (ventilation only, no air conditioning)
- Indoor Summer, Unoccupied: Inoperative
- Indoor Winter Occupied: 20°C db
- Indoor Winter, Unoccupied: 15.6°C db
- Outdoor Summer: 31.7°C db/22.2°C wb
- Outdoor Winter: -15.6°C db
- Ventilation (Outdoor Air): ASHRAE 62-1999

6.1.4 U factors (maximum values):

- Opaque Walls: 0.41 w/(m².k)
- Roof: 0.28 w/(m².k)

6.1.5 Furnish and install access doors in walls and ceilings where access is required to conceal mechanical equipment, valves, controls and other devices.

6.1.6 All mechanical equipment shall have a 2 year parts and labor warranty.

6.2 SUBMITALS

6.2.1 Operations and maintenance manuals shall include a CD-ROM for the control system that includes the software copy of all HVAC deliverable items, as well as equipment layouts, schematics, sequence of operation, software programming sheets, graphics, as-built database, and line diagrams.

6.3 STEAM AND HEATING WATER SYSTEM

6.3.1 Heating energy source will be the central district steam. The air-handling unit coils and the reheat coils shall be served by medium temperature hot water (MTHW), via heat exchange with the steam source. Since steam is not available year around, an electric immersion heater may be considered for installation in the hydronic loop, in series with the steam to water heat exchanger for the purpose of serving the reheat boxes when steam is shutdown.

6.3.2 The steam system supply conditions are 157.2 °C. and up to 482.7 kPa pressure.

6.3.3 Steam and condensate piping shall be steel, seamless for sizes 50 mm and smaller, and electric resistance welded for sizes larger than 50 mm. Steam piping shall be schedule 40 and condensate return piping shall be schedule 80. Select piping for the applied temperature and pressure conditions. Piping shall be insulated with fiberglass and factory-applied cover.

6.3.4 Size piping for nominal water velocity of 1.524 m/s, not to exceed 2.44 m/s (water) velocity nor exceed 17.9 kPa/30480 mm of pipe pressure drop. Size steam piping for nominal 40.64 m/s, not to exceed 61 m/s.

6.3.5 Design MTHW coils, pumps and piping system for 30% water/ethylene glycol mixture. Fill system with glycol mixture when system installation is complete.

6.3.5 Provide 100% backup pump for MTHW system with automatic startup if first pump does not prove flow.

6.3.6 The Garage building #879 will be disconnected from a steam source when the overhead steam line is removed. This steam source is to be replaced by a steam line extension from the CATM building. Because there is considerable underground activity on the south side of the CATM building, the most economical route from the district steam trench may be through the building. The Mechanical work shall be coordinated with the civil work to close the interface with the existing steam distribution and condensate return systems within the garage.

6.4 AIR HANDLING SYSTEMS

6.4.1 Firing Range Air Handling Units:

6.4.1.1 Package Makeup Air Units (MAU) with Energy Recovery. Provide unit that supplies a constant volume 100% outdoor air supply that recovers heat from the exhaust airflow. The supply air shall be filtered (30%), temperature preconditioned by an energy recovery exchanger, and heated by a heating coil to control the supply air temperature. Exhaust air shall be filtered in three stages to meet or exceed the requirements of the Base, EPA, NIOSH and the National Ambient Air Quality Standard (NAAQS) for lead containment. The supply-air side shall be constant airflow, sized to provide laminar airflow of 23 meters per minute (mpm) velocity ± 5 percent, at the firing line. Halfway between the firing line and the bullet trap the airflow shall be maintained between 1 and 10 mpm. The exhaust air shall be balanced to provide a negative pressure (-0.05 ± 0.02 -inches w.g.) in the firing range space by setting exhaust-air flow to exceed the supply-air flow by approximately 10%. This constant volume airflow condition shall be maintained. A variable volume damper assembly (damper in series with filters) shall modulate from a partially closed position to a full open position to compensate for a pressure drop increase through the filters, as the filters load up. This constant flow performance requirement can also be achieved with a variable speed fan that ramps up speed as the filter load increases. Coordinate the pressure loads with the structural engineer.

6.4.1.2 Provide two or more units to serve the 21 multi-use firing lanes (with two safety lanes); and one unit to serve the 2 M60 machine gun lanes (with two safety lanes). These units shall be located outside in the mechanical areas immediately to the south and west of the building, and arranged for easy access. Provide housekeeping pads and coordinate heating coil removal space with the wall enclosure. Coordinate equipment sizing and location with the design architect so that no equipment is visible above 117'0" elevation in the mechanical yards.

6.4.1.3 The makeup air units shall be packaged double wall type and include an intake damper section, 30% prefilter, heat recovery section, supply fan, hot water heating coil, and access sections. Heating coil shall be sized to deliver 26.7°C (maximum) supply air temperature. Normal operating supply temperature shall be 20°C. Provide door access on both sides of the units in the fan section, before and after each coil section, and for the filter sections. The

outdoor air intake opening shall be no less than 3048mm above ground level in compliance with DOD Force Protection Guidance. Take care to adequately separate the exhaust air from the makeup air intake to avoid entrainment in the makeup air. All intake air openings must be 10' above ground or higher. Provide supply air distribution ducts to enter the building below the roof and route through the structural truss, above the baffles and the 2440 mm high shooter's ceiling and distribute to radial diffusers that serve the firing lanes. Coordinate with architectural and structural designs. The supply and return ducts shall have sound attenuators at the wall penetrations to the building.

6.4.1.4 The MAU exhaust-air side shall include a fan section, the heat recovery heat exchanger section (common with the supply air section) and a filter section. The filter section shall be comprised of a 3-stage (30% prefilter, 85% midfilter, and a 99.97% final filter) filter section to properly manage dust retention and minimize the filter replacement cost. The exhaust pickup points shall be located at, or behind the bullet traps. The exhaust pickup in the Range shall be continuous slot across the width of the range and separated into sections to serve the MAU dedicated to the same lanes served by the MAU supply air (i.e. no common ductwork between MAU systems).

6.4.1.5 Provide hydronic unit heaters in the firing range area, sized to maintain the area at 15.6 °C (60°F) during unoccupied periods.

6.4.1.6 Ventilation Control System: Shall monitor space pressure relative to outdoor pressure, and provide a loss of negative pressure alarm. The controls should monitor fan and filter status, provide interlocks and safeties as required to operate the range in a safe and controlled manner.

6.4.1.7 Ventilation Commissioning: Perform ventilation assessments as follows:

- Smoke test: At the firing line, smoke test each firing station from the floor to the six foot above floor level. The smoke should move down range to demonstrate laminar flow. Document any unusual smoke patterns. If laminar flow is not achieved, adjust the ventilation system and retest. Conduct additional smoke measurements down range to ensure adequate air velocities and patterns are maintained down range towards the bullet trap.
- Ventilation (Volumetric flow): Use a properly calibrated hot wire or vane type meter; At the firing line at each firing station, place the meter perpendicular to the floor. Take three measurements at the same height in three locations from the floor (approximately one foot, three feet and five feet above the floor) This will result in nine readings for each firing position. Average the nine readings. Use a properly calibrated grid meter; At the firing line at each firing station, place the meter perpendicular to the floor. In the center of each firing station take a measurement at three locations from the floor (approximately one foot, three feet and five feet above the floor) This will result in three readings for each firing position. Average the three readings. Compare the average at each shooting station to the design criteria of 23 meters per minute (mpm) velocity ± 5 percent. Any individual reading less than 15.3 meters per minute is unacceptable.
- Static pressure measurement: A manometer or magnahelic guage can be used to check the pressure in relation to areas outside the range. A hose can be placed outside the door with at least six inches of hose outside the door or use a smoke tube at all entrances or openings into the range. Smoke should enter into the range from outside

areas. The test is acceptable if smoke clearly enters into the range from outside areas.

6.4.2 General Administrative Building Air Handling Systems:

6.4.2.1 Air-Handling-Unit (AHU): Provide a double wall variable volume air-handling unit with insulated casing and energy recovery section capable of handling 100% outside air. . The unit will be located in the south mechanical room, adjacent to the outdoor mechanical area. The condensing unit will be located in the adjacent, outdoor, mechanical equipment space. The air-handling unit will include 25% - 30% filter section, energy recovery section, mixing section, hot water heating coil, direct expansion (DX) cooling coil, supply fan with variable speed motor, and access sections. Supply air will be ducted to zone variable volume terminal units with (hydronic) reheat coils and subsequently distributed to grills, registers and diffusers. Return air may be routed via plenum or ducts from grilles in each conditioned space to the air-handling unit. An exhaust fan shall draw the return air through the energy recovery section and exhaust to atmosphere. The Administration Area shall be balanced to a slightly positive air pressure supplying more air than is being exhausted through toilet exhaust. Excess supply air shall be relieved through a backpressure relief system. A night set back mode will conserve energy by setting back the space temperature setpoints, shutting down exhaust fans and reducing the minimum outside air setting to maintain a positive space pressure. During occupied periods, the outdoor air and exhaust air shall be routed through the energy recovery section. An air economizer function shall be accommodated with outside air and exhaust air dampers that bypass the energy recovery wheel. The vestibule shall be heated by a cabinet unit heater.

6.4.2.2 The Range Control Room shall be on a separate temperature control zone and shall be designed to remain pressurized with respect to the firing range.

6.4.2.3 The Main Storage Room shall be on a separate temperature control zone and shall be designed to remain pressurized with respect to the firing range

6.4.2.4 Size ductwork using equal friction criteria. Size supply air ductwork to not exceed 24.9 Pa pressure drop per 30480 mm of duct. Size return, outdoor, relief and exhaust ductwork to not exceed 17.4 Pa pressure drop / 30480 mm. Air velocity should not exceed 9.1 m/s velocity.

6.4.2.5 Toilet Exhaust System: Provide a ducted exhaust system to serve the toilet rooms no. 119 and 120 and janitor's closet no. 117. The exhaust fans shall be inline type and ducted to sidewall louvers. Toilet room no. 131 shall be exhausted to a power roof exhaust fan.

6.4.2.6 Arms Cleaning and Weapons Maintenance Rooms: Provide a ducted exhaust for the solvent cleaning operation and duct to sidewall louvers in the outside mechanical equipment area.

6.4.2.7 Mechanical Equipment Rooms (MER): Ventilate both MER's with thermostatically controlled outside air. Provide hydronic unit heater to maintain minimum safe room temperature.

6.4.3 Ductwork Design:

6.4.3.1 Provide galvanized sheet metal ductwork in accordance with Sheet Metal and Air Conditioning Contractors National Association (SMACNA) standards, fiberglass insulated with factory-applied cover. Insulation in exposed areas shall be rigid and insulation in concealed areas shall be flexible. Exterior

ductwork shall be insulated with cellular glass and aluminum jacket in accordance with the manufacturers specification.

6.4.3.2 Ductwork should incorporate good engineering practice, including smooth elbows with an R/D ratio of not less than 1.5. Take-offs from mains shall be with expanded or conical takeoffs. Provide access doors at periodic locations in the ductwork to enable inspection and cleaning.

6.5 NOISE CRITERIA

6.5.1 Firing Range system shall be designed not to exceed an NC rating of 65.

6.5.2 General Building System shall be designed to an NC 35 for all occupied spaces.

6.6 CONTROL SYSTEM

6.6.1 The building shall have a Direct Digital Controls (DDC) system with electric or electronic operators for dampers and valves. System shall be compatible with and connected to the existing campus system via the base LAN. Use wall mounted temperature sensors to control terminal units. System to be coordinated with and incorporated into the firing range control system. The firing range target control system will not operate without proof that the respective HVAC system is operating properly and the airflow is within design limits. Air system control console shall be located in the respective range control rooms for each range. Target control system shall be interlocked with the air system and not operate without confirmed proper operation of appropriate air system. System shall be alarmed if:

- The space should exceed allowable pressure limits.
- Any fan fails to operate.
- MAU airflow falls below setpoint (Duct air flow setting shall equate to 21.9 mpm (low side tolerance of $23 \pm 5\%$) air velocity at the firing line).
- Filters are approaching shutdown limit. Monitor differential pressure at each filter section (prefilter, mid-filter, HEPA filter) for each MAU. Alarm at 80% of capacity and disable system at values greater than 90% capacity.

6.6.2 The firing range supply and exhaust fans shall be electrically interlocked to run at the same time. The administrative area AHU shall be controlled in accordance with an appropriate occupied/unoccupied strategy.

6.6.3 The control system shall monitor all parameters required to properly control the HVAC system and provide automatic control of all manageable devices. The control system shall monitor, record and report electricity and steam consumption.

6.6.4 The control system shall manage a staged startup of mechanical equipment. Coordinate with the electrical design engineer.

6.6.5 Control system shall be compatible with the Base standard DDC system; STAEFA or Johnson Control (METASYS). Control and monitoring points shall be compatible with the central Base EMCS system located in Building 3022. Provide interface and connection to the Base Energy Monitoring System.

6.6.6 Provide Operations and Maintenance Manuals with Cdrom containing the software copy of all HVAC items to include but not be limited to, equipment

layout schematic, sequence of operations, software programming sheets, graphics, as-built database, and line diagrams.

6.6.7 Provide non-setpoint adjustable thermostats with override occupied start feature. Provide tank pressure sensor for analog input of the air compressor tank by the DDC System.

6.6.8 Provide laminated and waterproof documentation in each control panel for: bill of materials, sequence of operation, ladder schematics, pictorial schematic.

6.7 PLUMBING

6.7.1 Compressed air:

6.7.1.1 Compressor to be located in mechanical room #121, and have a minimum capacity of 11.8 L/s (25 cfm) at 1206 kPa(175 psi)

6.7.1.2 Provide outlets at each work station around the perimeter at the work benches in the Weapon Maintenance room, number 118.

6.7.1.3 Pipe: Type L hard copper, ASTM B88

6.7.1.4 Joints: Brazed with AWS A5.8 BcuP-3

6.7.1.5 Fittings: Wrought copper, ANSI B16.22

6.7.1.6 Valves: of compatible materials sized as required for performance and of type suitable for the application

6.7.2 Domestic Cold and Hot Water:

6.7.2.1 Connect to site domestic cold water piping entering the side of the southeast mechanical room. Design domestic hot and cold water supply, and waste and vent systems to serve plumbing fixtures shown on the Architectural drawings. Size piping for nominal 1.22 m/s to 1.83 m/s velocity in pipes, but do not exceed 2.4 m/s and maximum pressure drop of 17.94 kPa/30480 mm of pipe.

6.7.2.2 Domestic water piping shall be type L copper. Insulate piping with fiberglass insulation with factory-applied cover. Provide valves at each branch takeoff to toilet rooms and janitor's closet, weapons maintenance area and coffee bar.

6.7.3 Roof Drainage:

6.7.3.1 Roof drains shall be internal drains with all piping below the roof insulated to prevent surface condensation.

6.7.4 Sanitary System:

6.7.4.1 Provide a soil, waste and vent system for the toilet rooms, janitors closet, floor drains and other plumbing requirements in the facility. Tie into the sanitary system.

6.7.4.2 Sanitary system piping shall be either service weight cast iron or copper. Exposed piping shall be chrome plated. Insulate exposed drains to fixtures for the handicapped and water cooler drains with insulation with factory-applied cover.

6.7.5 Plumbing Fixtures:

6.7.5.1 Install fixtures where shown on the floor plan.

6.7.5.2 Provide a floor drain with trap primer at each group of water closets.

6.7.5.3 Provide new vitreous china, nonabsorbent, commercial quality fixtures free of cracks, blisters, thin spots or other flaws. Fixtures for the physically handicapped shall be in accordance with ADA requirements.

6.7.5.4 Faucets and trim shall be chrome finished with brass and copper waterways.

6.7.5.5 Carriers shall be provided for water closets, urinals, lavatories, and water coolers.

6.7.5.6 Water closets shall be wall hung, siphon jet, elongated bowl, top spud, wall mounted. Seat shall be white plastic open front. Flush Valve shall be non-hold open feature, back check angle control stop, and vacuum breaker.

6.7.5.7 Urinals shall be wall hung, siphon jet, top spud, back outlet, privacy screen. Flush Valves shall be non-hold open feature, back check angle control stop, and vacuum breaker.

6.7.5.8 Lavatories shall be self-rimming counter type. Faucet shall be deck mounted single lever type. Drain shall be strainer type.

6.7.5.9 Water Cooler shall be dual height, self-contained, wall mounted, push pad actuation.

6.7.5.10 Service Sink shall be precast terrazzo floor mounted mop sink with stainless steel cap and 76.2 mm drain. Size shall be 914.4 mm x 609.6 mm x 304.8 mm high.

6.7.5.11 Dry Sink: Government type to comply with Federal Specification WWP-541b and current amendments. Single compartment with integral welded drainboard on left side and 38.1 mm backsplash. Sink shall be 14 gauge minimum thickness 304 stainless steel. No faucets or drain.

6.7.5.12 Scullery Wet Sink: Government type to comply with Federal Specification WWP-541b and current amendments. Single compartment with integral welded drain board on right side and 31.1 mm backsplash. Sink shall be 14 gauge minimum thickness 304 stainless steel. Faucets shall be chrome plated, 1.27 mm I.P.S. female flanged inlet, 1.9 mm, hose thread outlet.

6.7.5.12 Provide a permanently installed eye wash (fixed plumbing) in the Weapons Maintenance Room. Eye Wash shall be ADA compliant, wrap around skirt, stay-open stainless steel ball valve, twin stainless steel eye/face wash, water flow operated with hand paddle, safety sign.

6.7.5.13 Hot Water Heater: Design electric heater in accordance with ASHRAE guidelines and to be constructed in accordance with ASME Code for working pressure 1034 kPa (150 psig). Heater shall be in compliance with UL 174 or UL 1453, and listed by manufacturer for commercial applications. Heater shall be factory assembled with glass lined tank separately controlled heating elements, safety controls, drain valve, anode rod, and dip tube. Heater size is estimated to be less than 12 kW heating and 120 gallon.

6.8 FIRE PROTECTION

6.8.1 Fire protection shall conform to Federal Safety and Health Regulations for Construction (OSHA)

6.8.2 Sprinkler Systems:

6.8.2.1 Except as noted the entire building will be sprinklered as follows: Ordinary hazard, Group 2, wet system with 0.136 L/sq m design density for 278.7 sq m area of operation. Provide hose allowance of 31.6 L/s. Based on this information, the following data will be considered minimum requirements.

| | | | | |
|--------------------|---|--|---|----------|
| Sprinkler Demand | = | $0.136 \text{ L/(s} \times \text{m}^2) \times 278.7 \text{ m}^2$ | = | 37.9 |
| Sprinkler Demand | x | 1.30 safety factor | = | 49.3 L/s |
| Hose Demand | = | | = | 31.6 L/s |
| Total Water Demand | = | | = | 80.9 L/s |

6.8.2.2 Shall perform a water flow test, scheduled with C. J. Vehorn @ 257-3397.

6.8.2.3 For reference, a water flow test was performed on September 4, 2002. The flow test was performed at the fire hydrant at the corner of Newark and I Street. The pressures were measured at the fire hydrant, one block away, at the corner of Newark and Road "Z". Test results:

- Flow = 69.4 l/s
- Static pressure = 365 kPa
- Residual pressure = 317 kPa

6.8.2.4 It is not anticipated that a fire pump will be required.

6.8.2.5 Sprinkler system must be equipped with a 4" "Storz" connection angled at 45 degrees, pointing toward the ground.

6.8.2.6 Light hazard pipe schedule sprinkler systems are not permitted.

6.8.2.7 All sprinkler systems must be equipped with water flow alarms that transmit a signal to the base fire department.

6.8.2.8 All sprinkler control valves shall be electrically supervised.

6.8.2.9 Three-foot minimum clearance required on all sides of sprinkler risers, valves, check valves and similar devices to facilitate maintenance.

6.8.2.10 Check valves and other devices requiring regular maintenance shall not be located above drop ceilings in finished areas.

6.8.2.11 Sprinklers shall be "concealed pendant mounted" type in finished areas. Valves with tamper switches and flow switches shall be provided.

6.8.2.12 Do not provide sprinkler system in rooms:

- M60 Firing Range #124
- M60 Bullet Trap area #125
- M60 Back Aisle #126
- Main Firing Range #127
- Main Bullet Trap area #128
- Main Back Aisle #129.

6.8.3 Fire Extinguishers and Cabinets:

6.8.3.1 Provide multi-purpose, dry chemical fire extinguishers and cabinets in accordance with NFPA 10.

6.8.3.2 A portable fire extinguisher rated not less than 2-A shall be provided for each 278.7 sq. m. of the construction building area, or major fraction thereof. Extinguishers shall be inspected and maintained in accordance with NFPA 10, Portable Fire Extinguishers.

6.8.3.3 Fire extinguishers listed or approved by a nationally recognized testing laboratory shall be used.

PART 7 - ELECTRICAL

7.1 EXTERIOR ELECTRICAL

7.1.1 Service Entrance: Refer to Section 01020, Part 2 for Electrical Service Entrance Requirements.

7.1.2 Exterior Lighting:

7.1.2.1 Parking Lot Lighting: Provide parking lot lighting with a general illumination level of 2 foot-candles. Lighting poles shall be spaced to provide a uniform lighting pattern and shall not obstruct traffic or parking spaces. Poles shall be aluminum. Light fixtures shall be metal halide 250 watt. Control shall be via a photocell.

7.1.2.2 Security / Egress Lighting: Provide building security / egress lighting at all entrances and exits from the building. Main entrance lighting shall be metal halide. All fixtures shall be architectural type, selected to be compatible with the building architecture. Control shall be via a photocell.

7.1.2.3 Utility Lighting: Provide security and maintenance lighting for outdoor mechanical courtyards. Lighting shall provide sufficient lighting to inspect equipment at night. A weatherproof switch located within the mechanical courtyard shall control lighting. Fixtures shall be metal halide.

7.1.2.4 Walkway Lighting: Provide metal halide bollards along the walkway to the main building entrance. Provide illumination levels in accordance with the latest recommendations of the Illuminating Engineering Society.

7.1.3 Communications: Refer to Section 01020, Part 2 for Communications Service Entrance Requirements.

7.2 INTERIOR POWER

7.2.1 Building Electrical Service:

7.2.1.1 A 480Y/277 volt, three phase building service will be extended underground into the building from a new pad mounted 15Kv, 480 volt secondary transformer. Provide 15kV riser from overhead 15KV line down pole to a ductbank connecting to a pad mounted transformer. Provide fused cutouts and lightning arresters on pole for new riser.

7.2.1.2 Provide a Service Entrance Rated Panel, with main breaker in the main building Electrical Room. Service Entrance Panel shall be wall mounted, 480Y/277V volt, three phase. This panel shall serve mechanical equipment, sub-feed to a separate 480Y/277 volt, three-phase lighting & miscellaneous load panel and feed a 480Y:208Y/120 volt transformer as described herein.

7.2.1.3 Provide a minimum of 20% spare capacity and circuit breaker space in the Service Entrance Panel.

7.2.1.4 Transient Voltage Surge Suppression (TVSS): TVSS shall be provided on the main bus of the Service Entrance Panel.

7.2.2 Building Electrical Distribution System:

7.2.2.1 Provide distribution panels (208Y/120 volt, three phase) for building general power. Panels shall be fed from the Service Entrance Panel via a 480Y:208Y/120 volt, three-phase transformer. General power panels and circuits shall be provided as required to meet the building electrical system requirements.

7.2.2.2 Provide separate panel(s) for all lighting, equipment and general power requirements for the Main Firing Range, M60 Machine Gun Range, Range Control Rooms and Range Entry Rooms. Locate the panel(s) in the Main Range Control Room. Firing range equipment (bullet traps, targeting system, etc.) shall be provided with dedicated circuits for each piece of equipment.

7.2.3 Electrical Equipment and Devices:

7.2.3.1 Devices and equipment shall conform to the following regulatory documents:

- IEEE C37.13 Low-Voltage AC Power Circuit
- NEMA 250 Enclosures for Electrical Equipment (1000 Volts Maximum)
- UL 489 Molded-Case Circuit Breakers and Circuit-Breaker Enclosure
- NEMA ST 20 Dry-Type Transformers for General Applications
- NEMA WD 1 General Requirements for Wiring Devices

7.2.4 Wiring Requirements:

7.2.4.1 All conductors shall be copper. Branch circuit conductors shall not be smaller than No. 12 AWG.

7.2.4.2 Conductors for branch circuits of 120 Volts exceeding 100 feet in length, and 277 Volt circuits exceeding 230 feet in length from panel board to center of load shall be not smaller than No. 10 AWG. Conduit sizes are based on the use of type THHN insulation for conductors smaller than N0. 1/0 and type THWN for cables larger than No. 1/0.

7.2.4.3 Phase conductors shall be identified by color-coding. The color of the insulation on phases A, B and C respectively (for three phase) or phases A and B respectively (for single phase) of different voltage systems shall be as follows:

- 120/208 Volts: Black, Red and Blue
- 277/480 volts: Brown, Orange and Yellow

7.2.4.4 Conductor identification shall be provided within each enclosure where a tap, splice or termination is made.

7.2.4.5 Provide a separate green ground conductor in each conduit.

7.2.4.6 All conduits shall be steel. Metallic armored cable may be used in walls.

7.2.5 Identification Requirements:

7.2.5.1 Provide identification nameplates on the following equipment:

- Panel boards
- Motor Starters
- Safety Switches
- Transformers
- Equipment Enclosures
- Motors
- Telephone and Computer Racks

7.2.6 Panel boards:

7.2.6.1 Provide a minimum of 20% spare bus capacity and circuit breaker space in all panel boards.

7.2.6.2 All panel boards shall be provided with copper busses and meet the AIC capacity required as demonstrated in the short circuit study performed by the Contractor. All new panels shall be bolt-on circuit breaker type and equipped with main breakers.

7.2.7 Systems Furniture Power:

7.2.7.1 Provide electrical service to systems furniture as required in Section 01020, Part 4. Power connections to furniture systems shall be through wall, column or floor feeds. Power poles are not permitted.

7.2.8 Transformers:

7.2.8.1 Dry type transformers serving the 208Y/120V branch circuit panel boards shall be floor mounted in the Electrical Room and isolated to reduce the transmission of vibration to the structure. Connections to transformers shall be made using flexible conduit.

7.2.9 Receptacles:

7.2.9.1 Receptacles shall be provided for general use and special equipment as necessary. No more than four receptacles shall be on a branch circuit feeding office cubicles. Receptacles feeding computer loads and special equipment shall be on separate circuits from the general and mechanical equipment circuits.

7.2.10 Special Firing Range Systems:

7.2.10.1 Provide power and control for a complete installation of the Firing Range Systems described in 01020, Part 3. Coordinate power and control requirements for all Firing Range systems with manufacturer of system.

7.3 LIGHTING**7.3.1 Fixtures:**

7.3.1.1 Provide 2'X4' deep-cell parabolic fluorescent, lay-in fixtures throughout office areas. Louvers shall be a minimum of 3 inches deep and shall have 24 cells.

7.3.1.2 Lensed recessed 2'X4' troffers shall be provided in general spaces with ceilings that have no computer use.

7.3.1.3 Provide industrial strip fixtures with a plastic lens casing in general interior areas without ceilings such as, electrical, mechanical rooms.

7.3.1.4 Fixtures shall be equipped with high-Frequency electronic ballasts. All ballasts shall be equipped with RF suppression.

7.3.1.5 Fixtures shall use T-8 lamps with a correlated color temperature of 4100K and have a minimum Color Rendering Index (CRI) of 75.

7.3.1.6 Fixtures shall be switched in each individual room by wall switches at the entry door to the room. Light switches shall be equipped with occupancy sensors. The sensors shall be designed with the proper combination of automatic and manual lighting control to achieve maximum efficiency and energy conservation.

7.3.1.7 Exit signs shall have lettering on an opaque background. Internally illuminated signs shall be light emitting diode (LED) type.

7.3.2 Light Levels:

7.3.2.1 Light levels shall be as recommended in the Illuminating Engineering Society of North America Handbook. Minimum is as follows:

| | | |
|---------------------------------------|---|-----------------|
| • Office/Classrooms/FACTS | - | 50 foot-candles |
| • Arms Cleaning & Weapons Maintenance | - | 70 foot-candles |
| • Storage Rooms | - | 20 foot-candles |
| • Arms Vault | - | 50 foot-candles |
| • Range Control Rooms | - | 50 foot-candles |
| • Corridors | - | 15 foot-candles |
| • Toilets | - | 15 foot-candles |
| • Stairs | - | 30 foot-candles |
| • Electrical rooms | - | 35 foot-candles |
| • Mechanical rooms | - | 35 foot-candles |

7.3.3 Range Lighting:

7.3.3.1 See Section 01020, paragraph 3.5 for requirements.

7.4 SPECIAL SYSTEMS

7.4.1 Fire Alarm System:

7.4.1.1 The fire alarm system will be an addressable intelligent system whose fire alarm control panel is located near the building entrance. Key panels to a Master "B" keyway per Base Facility Standard. Provide Knox Box and connection from Knox Box tamper switch to FACP. Smoke detectors will be provided per NFPA 72 and 75. Provide combination audible/visible notification appliances throughout. In areas deemed not to require an audible appliance, such as a toilet room, a visual only appliance shall be provided.

7.4.2 Intrusion Detection System (IDS):

7.4.2.1 See Section 01020, paragraph 3.6 for requirements.

7.4.3 Data & Telephone System:

7.4.3.1 Provide data and telephone wiring and outlets in accordance with the requirements of the Base Facility Standard (included as a reference with this RFP). Outlet quantities shall be as shown on the drawings.

7.4.3.2 data cabling shall be Category 6. Telephone cabling shall be Category 5.

7.4.3.3 Contractor shall coordinate with WPAFB personal for the punch down/termination of cabling.

7.4.4 Lightning Protection System:

7.4.4.1 Provide a complete aluminum lightning protection system conforming to NFPA 780.

7.4.5 Grounding:

7.4.5.1 Provide a complete building grounding counterpoise system complete with ground rods.

7.4.5.2 Tie building system ground to Lightning Protection System.

PART 8 - CONSTRUCTION CONSIDERATIONS AND USE OF PREMISES

8.1 SUMMARY

8.1.1 The requirements include:

- Construction considerations and use of the premises.
- Protection of personnel and Government property.
- Construction facilities and job site standards.
- The requirements of this section apply to the entire project including all addenda or change orders that may be issued to modify the contract documents.

8.2 GENERAL INFORMATION

8.2.1 Construction Considerations:

8.2.1.1 The superintendent in charge of this work shall personally contact the Base Civil Engineering Division, Building 11, Area C, and the Contracting

Officer a minimum of 72 hours before starting site operations of the contract, before resumption of seasonal work, before restarting work after a lengthy delay, and prior to moving men and equipment from one site of work to another.

8.2.1.2 Coordinate all construction activities with:

- a. Project Inspector
- b. Contracting Officer Representative
- c. Base Fire Department
- d. Security Police

8.2.1.3 Prior to the start of any construction operations whatsoever, a schedule of work or operations in proper sequence shall be submitted by the contractor for approval by the Fire Protection Branch, Security Police, Safety Office, and the Contracting Officer so as to cause a minimum amount of disruption to the normal flow of traffic on streets, pedestrian travel, base security, and facility operations.

8.2.1.4 Coordinate all Construction and Use of Premises Activities with the Contracting Officer Representative.

8.2.1.5 Contractor shall take extra care to comply with all OSHA safety regulations for his employees, subcontractors, vendors and representatives, as well as all building occupants and visitors.

8.2.1.6 Coordinate with Contracting Officer the scheduling and routing of work, personnel access and material deliveries for the work.

8.3 DOCUMENTATION

8.3.1 Construction Plan:

8.3.1.1 Prior to the start of any onsite construction activities, the Contractor shall submit a detailed construction plan. The plan shall include:

- a. A detailed schedule of the major construction activities (GANTT chart or other mutually agreeable format).

8.3.1.2 Submit to the Contracting Officer's Representative for approval, a project schedule detailing on a weekly basis when work is to begin for each major work item and what work is to be accomplished (including quantities), etc. While factors not under the Contractor's control may cause the Contractor to fall behind the schedule, the intent of the schedule is to inform the Government of planned orderly progression of the work in proper sequence. Once the schedule is approved, do not deviate from the sequence, without prior written approval.

8.3.2 Waste Disposal:

8.3.2.1 Prior to the start of any onsite construction activities, the Contractor shall submit a written plan for disposing of waste materials resulting from work under this contract. If any waste material is dumped or left in an unauthorized area, the Contractor shall remove the material and restore the area as required by the Contracting Officer.

8.4 CONSTRUCTION CONSIDERATIONS

8.4.1 Use of the Premises

8.4.1.1 Contractor shall have exclusive use of the site for construction.

8.4.1.2 Working hours for the Contractor will be Monday through Friday between the hours of 5:00 a.m. and 6:00 p.m. unless otherwise noted. No work shall be performed on Saturdays, Sundays, and Federal holidays unless otherwise stated or shown.

8.4.1.3 Work may be required to be performed after normal business hours or on weekends if it is determined by the Contracting Officer to be disruptive to the building occupancy or operations.

8.4.1.4 In general, the Contractor shall be responsible for providing portable toilet, drinking, and washing facilities for his employees and subcontractor use.

8.4.1.5 The Government will make all reasonably required amounts of utilities available to the Contractor from existing outlets and supplies. The Contractor shall carefully conserve any utilities furnished without charge.

8.4.1.6 Prior to commencement of demolition and construction, the Contractor shall coordinate daily access and egress from the area of construction with the Contracting Officer. The Contractor shall confine construction personnel and equipment travel and operations to the area of work.

8.4.1.7 Utility outages and interruptions shall be scheduled through a written request to the Contracting Officer fourteen (14) days in advance. Construction activities requiring utility outages may be required to be performed after hours or on weekends.

8.4.1.8 No power outages will be permitted without advance written approval by the Contracting Officer.

8.4.2 Egress

8.4.2.1 Contractor shall maintain a neat and orderly workplace with clear paths of emergency egress within the construction area.

8.4.3 Storage of Materials

8.4.3.1 The Contractor shall be responsible for the storage and safekeeping of all material to be incorporated into the work. The Contractor shall be responsible for all aspects of safety and security within the storage area.

8.4.3.2 Contractor shall limit storage of materials, equipment trailer, and sheds to the site-designated staging area or within the confines of the area of work.

8.4.3.4 Provide adequate storage facilities for protection of materials and equipment. Materials and equipment shall be stored so as to ensure preservation of their quality of fitness for Work. Perishable items and items adversely affected by weather, rain, wind, dust, heat, or cold shall be stored within the designated area of construction, temporary waterproof sheds, or mobile facilities with raised floors, and heated if necessary. Other materials and equipment shall be stored on wooden platforms and not on the ground.

8.4.3.5 Storage facilities shall be clean, in good condition, undamaged and free of rust or surface deterioration. Rental trailers shall be of a neutral color. Unsightly material storage or office trailers will not be permitted.

8.4.3.6 The Contractor shall be responsible to maintain the condition of storage facilities, as defined above, and the entire construction site in a

neat, orderly, professional and uncluttered manner at all times throughout the length of the contract.

8.4.3.7 The Contractor's job site trailer shall have a professionally made metal identification sign attached in a prominent location. The sign shall be 2 ft. x 3 ft. in size (with light colored lettering on a dark colored background) indicating the Contractor name, name and 24 hour phone number of someone to contact in case of emergency.

8.4.4 Security

8.4.4.1 Security requirements shall be observed at all times. The Contractor shall be responsible for maintaining satisfactory standards of employee competency, conduct, appearance, and integrity.

8.4.4.2 Construction operations shall be strictly confined to the designated area of Work.

8.4.5 Protection of Personnel and Government Property

8.4.5.1 Contractor shall comply with all applicable Federal, State, and Local safety codes, regulations, and requirements.

8.4.5.2 It is the Contractor's responsibility to maintain a secure construction site to prevent access to the work area by unauthorized personnel.

8.4.5.3 Safety posters, "hard hat area" posters, "authorized personnel only" posters, and any other notifications required by law shall be posted and maintained in sufficient quantity to be conspicuous on the job site.

8.4.5.4 In the event of damages of any nature caused by this work due to improper protection, precaution or safety measures, such damages shall be repaired or the Contractor at no cost to the Government shall replace such property. In the event the Contractor does not satisfactorily repair or replace such damage caused by the work of this contract, the Government will make the necessary corrections and the Contractor shall reimburse the Government for inconveniences, labor, and materials, involved.

8.4.6 Fire protection

8.4.6.1 Fire protection shall conform to Federal Safety and Health Regulations for Construction (OSHA)

8.4.6.2 Fire extinguisher equipment shall be provided in storage areas according to the hazard present.

8.4.6.3 Fire extinguishers listed or approved by a nationally recognized testing laboratory shall be used.

8.4.7 Waste Disposal

8.4.7.1 The Contractor is required to maintain a clean project site free of accumulating debris. Demolition debris and other construction waste shall be promptly disposed of at the end of each workday in proper waste containers maintained on the project site by the Contractor.

8.4.7.2 Environmentally hazardous or other construction debris with special disposal requirements shall be stored on the site and disposed of off site in a proper lawful manner.

8.4.7.3 All debris shall be removed from the site on a regular basis. Waste shall not be allowed to accumulate.

8.4.7.4 Construction waste and debris maintained on-site prior to off-site disposal shall be controlled in a manner to eliminate any potential health or safety hazards.

8.4.7.5 Burning of waste or any other material on-site is strictly prohibited.

8.4.7.6 The project job site shall be "broom cleaned" at the end of each work day. The Contractor shall remove debris from the job site as it is generated and dispose of it in proper containers as outlined herein.

PART 9 - LEAD MANAGEMENT PLAN

9.1 SUMMARY

8.1.1 As part of the Part 2 design submittal, the contractor shall submit a draft Lead Management Plan to address sampling, testing, operation, maintenance and cleaning of the facility so that it remains in compliance with OSHA requirements for limiting exposure to lead and/or lead dust during operation. The plan shall be prepared by, or under the supervision of, a certified industrial hygienist. The plan shall address such issues as employee access to contaminated areas, disposal of waste materials and filters, operation and maintenance of the ventilation system and any other lead related problems that the user will encounter in operating the range facility. The draft plan shall be subject to review and correction as indicated for the design. Before the project is substantially complete, the contractor shall update the plan to include information on actual products used in construction (manufacturer, model, etc.).

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PART 10 - RENDERING REQUIREMENTS

10.1 The contractor shall provide two different perspective renderings for the project as follows:

10.1.1 "Birds-eye" or roof top perspective of the project to include as much of the surrounding area and existing buildings as necessary to depict the new facility and its contextual setting. Do not choose an angle so high that the drawing is dominated by the roof.

10.1.2 Eye-level perspective focusing on the building design and its significant architectural features. Typically, the most prominent entrance or façade is portrayed. The angle is at the discretion of the designer in these cases.

10.2 Sketch versions of the two perspectives listed above shall be submitted for review with the Part 1 design. Sketch perspectives shall be illustrated and rendered using pen and marker techniques which adequately illustrate the exterior materials, colors, and design intent. These perspectives shall be

presented in no smaller than 11 inch by 17 inch format to facilitate display and storage.

10.3 Final versions of the perspective renderings shall be submitted 60 days after the Part 1 review meeting. Submit two full-sized copies (not small photos) of each final rendering; one each to the base and the second set to AFMC/CEC, through the Contracting Officer. The final perspectives shall be submitted in the following standard format to facilitate display and storage.

10.3.1 The size shall be 24 inch by 36 inch overall, including matting and frame.

10.3.2 Frames shall be bronze metal, 3/4-inch to 1-inch deep; with single matting in a neutral color which complements the drawing.

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END OF SECTION

SECTION C-01021

DESIGN SUBMISSION REQUIREMENTS AFTER AWARD

PART 1 - INTRODUCTION

1.1 This Section contains information needed after the successful Offeror has been selected. This information is provided to all Offerors as an outline of the Design requirements to be anticipated after award.

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1.2 The information contained in this Section (01021 Design Submission Requirements After Award) applies to the design required for Fully Contained Small Arms Range and its associated site development.

1.3 Not Used.

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1.3 CONTRACTOR DESIGN REQUIREMENTS AFTER AWARD

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1.3.1 The Contractor shall design and detail a complete and useable facility as outlined in this solicitation. The design phase of this project shall be in two parts.

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Part 1 will include:

- 100% Site, Utilities, Building Structure and Foundation Design & 65% Building Design. Contractor shall advise the Government of any additional items that should be included in the Part 1 design for early construction release.

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At this point of design, the Government will analyze the building design to determine its potential blast resistance. If the building is found to have sufficient blast resistance, the Government may choose to have the contractor move the parking lot to the south, closer to the building. This change shall be at no cost to the Government. Therefore, any design that would be impacted by moving the parking lot shall be held off until a final decision on the parking location is made. The Government will furnish such decision within 60 days after the Part I submittal, if submittal is acceptable.

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Part 2 will include:

- 100% Building Design

The Notice-to-Proceed for construction will be issued after each part (Part 1 and Part 2) 100% design has been reviewed and certified by the Government.

1.3.2 The submittals shall include specifications, drawings, permit applications, confirmation notices, completed DD Form 1354, and submittal registers.

1.3.3 The design shall be completed in accordance with the codes and standards itemized in Section 01010, *Project Synopsis*.

1.3.4 DESIGN QUALITY CONTROL PLAN (DQCP): Within 10 days after Notice-to-Proceed, the Contractor shall provide a completed DQCP, including a schedule showing the major milestones for the design of the project. Show the submittal dates required in the contract or proposal documents. Use either a CPM or bar chart and incorporate a time scale. Show the periods for coordination of the design between disciplines and checking by the professionals. Identify by name the project team; the Project Manager and professionals for each discipline who will be responsible for the design. Notify the Government Project Engineer in writing if any of the professionals are changed.

PART 2 - SUBMISSION OF DESIGN DOCUMENTS

2.1 The Contractor shall submit design documents with cover letter by overnight mail in accordance with the requirements of Section 01010. The letter shall indicate the project name, due date of comments, and where to send the comments. Drawing sizes shall be As indicated at the end of this specification section. Specifications, submittal register, design analysis and other technical information shall be 8-1/2" x 11" vertically bound printed double sided on recycled paper.

2.2 Formal Design Reviews will be held at Wright-Patterson AFB for the following milestone meetings:

- 100% Site, Utilities, Building Structure & Foundation Design & 65% Building Design and Demolition Design.
- 100% Uncorrected Building Design
- 100% Backcheck / Certification of Building Design

2.3 Design Reviews shall not be taken as an approval and does not relieve the Contractor from responsibility for compliance with the RFP solicitation, Code Regulations, or betterments listed with the contractor's proposal.

PART 3 - GENERAL

3.1 The Contractor is required to independently prepare and submit for approval a complete Design. The Contractor's Design Professionals shall independently confirm and be responsible for the technical accuracy and adequacy of all aspects of the project design.

3.2 The project design shall include a two-part design submittal as outlined herein.

3.3 The submission requirements outlined herein are the MINIMUM requirements necessary.

3.4 Document quantities and delivery addresses are specified at the end of this specification section. Quantities and addresses apply for each submittal.

3.5 EXISTING DOCUMENTS: Existing site utilities, and other relevant drawings, are maintained at the Base Civil Engineering Office at Wright-Patterson AFB. Some files are in paper format and some are in electronic media. The documents shall be researched by the contractor for design and construction purposes. Copies of the electronic media or copies of the paper drawings shall be furnished to the contractor upon request, with the contractor paying costs for reproduction.

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3.6 CADD REQUIREMENTS: All drawings shall be in Microstation CADD software by Bentley Systems.

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3.6.1 Provide a separate electronic drawing file for each project drawing. Each file shall contain all the data for one complete drawing, including the date and border. Each drawing file must be completely independent of any data in any other file. Drawing files with external references such as reference file attachments or special fonts will not be acceptable. All displayable graphic elements on all levels of the drawing file must be part of the project drawing image. The drawing file may not contain any graphic element that is not part of the drawing image. Standard size drawing format shall be 22"x34".

3.6.2 Provide a list of all drawings in the set of project drawings together with the name of the electronic file that contains the data for each drawing.

3.6.3 Submitted hard copy drawings must be plotted directly from the electronic file.

3.7 SPECIFICATIONS & REPORTS: Provide project specifications and reports in a single electronic document file in Microsoft Word (latest edition), Windows 2000 format. The complete document: including title sheet, table of contents, submittal checklist, and all specification sections; must be assembled into a single electronic document in Word format.

3.7.1 Provide independent page numbering for each specification section. The page number shall incorporate the specification section number (e.g. - 15010-1).

3.7.2 Submitted hard copy documents must be printed directly from the electronic file, double sided, on recycled paper.

3.8 ELECTRONIC DATA: Electronic data of all design documents (Part 1 & Part 2) must be provided with the Part 2 100% Design Submittal. Data shall be on CD ROM 5-1/4 inch disc in native and Pdf format.

3.8.1 All furnishings' data including freestanding, systems and interior signage is to be provided in Microsoft Excel spreadsheet compliant with WPAFB CID Programs Standard format.

3.9 AS-BUILT DOCUMENTS: See Section 00800 for requirements.

PART 4 - SUBMISSION REQUIREMENTS**4.1 DESIGN PHASE**

4.1.1 Review sets will be distributed, by the Contractor, as shown on the attached list. Written comments will be provided to the Contractor and a review meeting to discuss the comments and preliminary responses will be held at Wright-Patterson AFB for each part of the design. The Contractor will keep the minutes of the meetings and forward the minutes and annotated comments to all reviewers within 7 days of the meeting. The annotations will be detailed enough to indicate exactly what the Contractor will do to comply with the comments. The contractor shall assemble the comments received into a complete package. The complete package of comments and responses shall be transmitted to all offices that received the design submitted.

4.1.2 During the Design Phase, the Contractor will be required to furnish the design submittals to ensure that the quality and size of the project is the same as the proposal selected for award. After each design part 100% design is reviewed and approved, the Contractor will be given Direction to Proceed with construction. The Government's review is not to be considered a quality control review; the contractor shall provide his own internal quality control before the design is submitted to the Government. It is very important the contractor's entire team agrees with the design before it is submitted to the Government. Each design submittal shall be stamped "approved" by the contractor, major constructors and by the design team prior to submission for review. The Government's review or approval does not relieve the contractor of his responsibility to provide a safe, functional project in accordance with the terms of the contract. All final drawings shall be signed and sealed by the Design Professional. Quality control procedures shall consist of design and/or checking by registered professionals and a review completed by a separate registered professional. Complete names of designers, checkers, and reviewers shall appear in the drawing title block.

4.1.3 The Government's review will likely result in a significant number of comments. The contractor shall respond to each comment with a response that clearly indicates what action will be taken. Comments that in the Contractor's opinion require effort outside the scope of the contract will be clearly indicated as such by the contractor; the contractor shall not proceed with work outside the contract until a modification to the contract is properly executed.

4.1.4 The Contractor (including appropriate design representatives) will be required to participate in project design progress meetings at Wright-Patterson AFB. Meeting requirements include the following:

- Monthly Progress Meetings - At a minimum, the Construction Project Manager, Design Project Manager, and appropriate Design Professionals shall attend.
- Additional meetings may be required, if in the Government's opinion, they are required to facilitate the design process.

4.2 CONSTRUCTION PHASE

4.2.1 Notice-to-Proceed for construction will be issued upon approval of the 100% Part 1 and Part 2 Design. In the event the Part 1 or 2 Submittal is not acceptable, multiple resubmittals may be required to attain approval prior to Notice-to-Proceed being issued.

4.2.2 As the first item of work during the construction phase, the Contractor shall furnish to the Government the following drawing sets and approved specifications for its use during construction.

| ORGANIZATION | OFFICE SYMBOL | SPECS | DRAWINGS |
|--|---------------|-------|------------------|
| U.S. Army Engineer District Louisville | LRL | 2 | 2-Half |
| U.S. Corps of Engineers | CELRL-CD-W-W | 2 | 2-Full |
| Department of the Air Force | 88 ABW/CECP | 3 | 2-Half 1-Full |
| Department of the Air Force | 88 SFS | 2 | 2-Half |
| Department of the Air Force | 88 ABW/EMO | 1 | 1-Half |
| Department of the Air Force | AFMC/CECC | 1 | 1-Half |
| AFCEA | | 1 | 1-Half |

4.2.3 No construction will be allowed on work for which the design has not been reviewed and approved.

4.2.4 The Contractor (including appropriate design representatives) will be required to participate in project construction progress meetings at Wright-Patterson AFB. Meeting requirements include the following:

- Weekly Coordination Meetings - At a minimum, the Construction Project Manager, Project Superintendent, and appropriate sub-contractors shall attend.
- Project Management Team (PMT) Meeting - All team members shall attend.
- Additional meetings may be required, if in the Government's opinion, they are required to facilitate the construction process.

4.2.5 The Design/Build A/E shall be required to visit the site Twelve (12) times (independent of scheduled meetings) during design & construction. Site visits will be scheduled at the request of the Contractor. Two (2) Design Professionals will be required for each visit.

4.2.6 The designer of record will be required to review and approve all project submittals.

4.3 PART 1 SUBMISSION REQUIREMENTS

4.3.1 Part 1 Design will consist of drawings, specifications, design analysis, permit applications and submittal registers for sitework,

utilities, demolition, and foundations (100% complete) and architectural, mechanical, electrical (65% complete).

4.3.2 Drawings:

4.3.2.1 Submit drawings complete with all RFP requirements incorporated into the documents to provide a complete 100% design for sitework, utilities, building structure and foundations.

4.3.2.2 Submit drawings complete with the RFP requirements incorporated into the documents to reflect a 65% complete design for architectural, interiors, mechanical, electrical and demolition work.

4.3.3 Design Analysis:

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4.3.3.1 The Design Professional shall prepare an independent Design Analysis and calculations necessary to confirm and support all design documents submitted for approval. At a minimum, the Design Analysis shall include site civil calculations, structural calculations, life safety & building code analysis, HVAC analysis and calculations, sprinkler system analysis, electrical load analysis and calculations, electrical short circuit and protective device coordination analysis & calculations.

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4.3.3.2 Analysis and calculations for the sitework, utilities and building foundations shall be 100% complete. Analysis for architectural, mechanical, electrical and demolition, work shall be 65% complete.

4.3.4 Specifications:

4.3.4.1 A "rough edited" version of the current COE guide specification is provided as part of this solicitation. This specification shall be used as the basic document for preparation of the final specifications for this project. The specifications provided with this solicitation will require review and editing in the preparation of the design. The Design Professional shall thoroughly review and edit the specifications to ensure that all project requirements, current code and regulatory requirements are met. Changes in the specifications made during design shall be "highlighted" in bold or other identifying means to readily reflect the changes made.

4.3.4.2 Specifications for the sitework, utilities, building structure and foundations shall be 100% complete. Specifications for architectural, interiors, mechanical, and electrical work shall be 65% complete.

4.3.5 Structural Interior Design (SID):

Interior Finishes Boards:

4.3.5.1 Prepare and submit for approval one interior building finishes scheme which matches the existing building finishes. Contractor shall

meet with and discuss the interior finishes with the Government prior to preparation of the scheme for review. Three (3) copies of the scheme shall be submitted on 8 ½" x 11" format boards.

4.3.5.2 At a minimum, Building Finishes Color boards shall include original color samples of the following:

- All wall finishes (paint, vinyl, tile, etc.). Provide information regarding tile patterns, etc. where applicable.
- All flooring finishes (carpet, tile, vinyl composite tile, etc.). Provide information regarding tile patterns where applicable.
- All ceiling finishes (acoustic tile, paint, etc.)
- All millwork materials and finishes (cabinets, counter tops, etc).

4.3.5.3 Each item on the Finishes Boards shall be identified and keyed to the floor plans to provide a clear indication of how and where each item will be used.

Exterior Finish Boards

4.3.5.4 Prepare and submit for approval two copies (boards) of the proposed exterior building materials. It is the intent that all exteriors match the existing building in color, finish, quality and performance.

4.3.5.5 At a minimum, the Exterior Building Materials Board shall include original color samples of the following:

- Roofing Material
- Precast Concrete
- Glass
- Exposed exterior metals
- Louvers
- Window & door finishes
- Specialty items

4.3.5.6 Each item on the Exterior Building Materials Board shall be identified and keyed to the building elevations to provide a clear indication of how and where each item will be used.

4.3.5.7 At the conclusion of the 65% Design Phase (after comments have been incorporated in the design), the Government will direct the Contractor to proceed with the exterior finishes.

4.3.6 Comprehensive Interior Design (CID):

4.3.6.1 Prepare and submit for approval three copies (3-ring binder format) of the proposed Comprehensive Interior Design. One scheme of materials color & pattern selections shall be prepared to coordinate with the Building Finishes Scheme.

4.3.6.2 At a minimum, the CID submittal shall include the following:

- Floor Plans showing locations and quantities of all *freestanding furniture* proposed for the building. Each room shall be keyed to a large scale Furniture Placement Plan showing the furniture configuration, and providing a detailed inventory (manufacturers product number & description) of all furniture.
- Floor Plans showing the locations and quantities of all *systems furniture* proposed for the building. Each workstation shall be keyed to a large scale Systems Furniture Inventory Drawing showing the workstation configuration, and providing a detailed inventory (manufacturer's product number & description) of all workstation components and amenities.
- Illustration Sheets (keyed to the Freestanding Furniture Plans) shall be provided for each piece of furniture. Illustration sheets shall include the following information: Item name, Room location, Finishes Samples (including product name & number), plan Key code, Description, and Illustration.
- Interior Signage Location Plans showing location and quantities of all interior signage. Each interior sign shall be keyed to a quantitative list indicating size, quantity of each type and signage text.

4.3.6.3 At the conclusion of the 65% Design Phase (after comments have been incorporated in the design), the Government will select and direct the Contractor to proceed with one of the materials color and pattern schemes presented.

4.3.7 SUBMITTALS REGISTER: The contractor will be required to prepare a Submittals Register (Engineering form 4288) identifying all Phase 1 construction submittals. Each submittal item shall be coordinated with the Government to determine the appropriate type of submittals required. A completed Engineering Form 4288, approved by the Contracting Officer, will be required prior to commencement of construction.

4.4 PART 2 SUBMISSION REQUIREMENTS

4.4.1 Part 2 will consist of plans, specifications and design analysis, permit applications, submittal registers, and completed DD Form 1354 for sitework, utilities, demolition, structures, architecture, interiors, mechanical and electrical (100% complete).

4.4.2 Drawings:

4.4.2.1 Submit drawings complete with all RFP requirements incorporated into the documents to provide a complete 100% design (Part 1 & Part 2). All drawings submitted for the Final 100% design will be considered an independent and complete design for this project. All drawings submitted shall be designed and reviewed by or under the direct supervision of licensed professionals in the applicable area of expertise.

4.4.2.2 All Final Design Part 1 & Part 2 Drawings (100%) shall bear the seal of the licensed professional responsible for the design.

4.4.3 Design Analysis:

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4.4.3.1 The Design Professional shall prepare an independent Design Analysis and calculations (Part 1 & Part 2) necessary to confirm and support all design documents submitted for approval. At a minimum the Design Analysis shall include Site civil calculations, structural calculations, life safety & building code analysis, HVAC analysis and calculations, sprinkler system analysis, electrical load analysis and calculations, electrical short circuit and protective device coordination analysis & calculations.

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4.4.4 Specifications:

4.4.4.1 A "rough edited" version of the current COE guide specification is provided as part of this solicitation. This specification shall be used as the basic document for preparation of the final specifications for this project. The specifications provided with this solicitation will require review and editing in the preparation of the building design. The Design Professional shall thoroughly review and edit the specifications to ensure that all project requirements, current code and regulatory requirements are met. Changes in the specifications made during design shall be "highlighted" in bold or other identifying means to readily reflect the changes made.

4.4.4.2 Specifications for architectural, interiors, structural, mechanical, and electrical work shall be 100% complete.

4.4.5 Architectural Photography:

4.4.5.1 Within 6 months after building occupancy the Contractor shall provide digital photography of 4 exterior and 6 interior views as selected by the Government. Three sets of 8x10 color prints and 35mm color slides of each view shall be provided along with the digital photograph file.

4.4.6 SUBMITTALS REGISTER: The contractor will be required to prepare a Submittals Register (Engineering form 4288) identifying all Phase 2 construction submittals. Each submittal item shall be coordinated with the Government to determine the appropriate type of submittals required. A completed Engineering Form 4288, approved by the Contracting Officer, will be required prior to commencement of construction.

4.4.7 Structural Interior Design (SID):

Interior Finishes Boards:

4.4.7.1 Prepare and submit three original copies of the interior building finishes approved at the 65% Design. Finishes boards shall incorporate all comments and changes approved at the 65% Design.

4.4.7.2 At a minimum, Finishes Color boards shall include original color samples of the following:

- All wall finishes (paint, vinyl, tile, etc.). Provide information regarding tile patterns, etc. where applicable.
- All flooring finishes (carpet, tile, vinyl composite tile, etc.). Provide information regarding tile patterns where applicable.
- All ceiling finishes (acoustic tile, paint, etc.)
- All millwork materials and finishes (cabinets, counter tops, etc).

4.4.7.3 Each item on the Finishes Boards shall be identified and keyed to the floor plans to provide a clear indication of how and where each item will be used.

Exterior Finish Boards

4.4.7.4 Prepare and submit for approval three copies (boards) (8-1/2" x 11", 3-ring binder format) of the exterior building materials approved at the 65% Design. Exterior materials boards shall incorporate all comments and changes approved at the 65% Design.

4.4.7.5 At a minimum, the Exterior Building Materials Board shall include original color samples of the following:

- Roofing Material
- Precast Concrete
- Glass
- Exposed exterior metals
- Louvers
- Window & door finishes
- Specialty items

4.4.7.6 Each item on the Exterior Building Materials Board shall be identified and keyed to the building elevations to provide a clear indication of how and where each item will be used.

4.4.8 Comprehensive Interior Design (CID):

4.4.8.1 Prepare and submit for approval three copies (3-ring binder format) of the Comprehensive Interior Design. Submittal should include materials color and pattern scheme approved at the 65% design.

4.4.8.2 At a minimum, the CID submittal shall include the following:

- Floor Plans showing locations and quantities of all *freestanding furniture* proposed for the building. Each room shall be keyed to a large scale Furniture Placement Plan showing the furniture configuration, and providing a detailed inventory (manufacturer's product number & description) of all furniture.
- Floor Plans showing the locations and quantities of all *systems furniture* proposed for the building. Each workstation shall be

keyed to a large scale Systems Furniture Inventory Drawing showing the workstation configuration, and providing a detailed inventory (manufacturer's product number & description) of all workstation components and amenities.

- Illustration Sheets (keyed to the Freestanding Furniture Plans) shall be provided for each piece of furniture. Illustration sheets shall include the following information: Item Name, Room Location, Finishes Samples (including product name & number), Plan Key Code, Description, and Illustration.
- Systems Furniture Electrical and Telecommunications Plans. Plans shall include locations and quantities of outlets for each workstation and point of connection for service. Electrical outlets and telecommunication receptacles shall be clearly identified to indicate the type of outlet proposed.
- Interior Signage Location Plans showing location and quantities of all interior signage. Each interior sign shall be keyed to a quantitative list indicating size, quantity of each type and signage text.

4.4.8.3 Final installed project documentation shall include:

- Shop Drawings - one set of sepia or mylar drawings capable of reproduction and four sets of prints showing the proposed systems furniture/prewired workstation
- Installation for the entire project. The drawings shall be at a scale of 1/4" - 1'-0" and shall include:
 - a. Floor plans of all floors showing all workstations and all system furniture core units and components. Identify all workstations by workstation type.
 - b. Dimensioned workstation isometrics or elevations with all components identified by the manufacturer's catalog numbers.
 - c. Floor plans dimensioned from finished face of walls, columns and partitions and keyed to a furniture schedule describing colors, finishes, sizes and types. Floor plans shall include all base power inlets, necessary wall mounted molding and all activated electrical outlets.
 - d. Floor plans showing all local area network wiring and equipment.
 - e. Location of all electrical floor boxes serving the workstations.
- Manufacturer's Literature:
 - a. Three sets of product assembly manuals which describe assembly and reconfiguration procedures.
 - b. Three sets of product maintenance manuals which describe proper cleaning and minor repair procedures.
- Inventory Listing - one complete listing of all installed CID items installed by the Contractor (except waste materials and paper management accessories) shall be provided within 60 days after completion of the installation.

4.4.9 Preparation of DD Form 1354 (Transfer of Real Property): This form itemizes the types, quantities and costs of various equipment and

systems that comprise the project, for the purpose of transferring the new construction from the Corps of Engineers Construction Division to the Installation's inventory of real property. The project engineer will furnish the contractor a project specific DD Form 1354 checklist. This checklist will be used as a guide in preparation of the project draft DD 1354. The contractor shall prepare the draft DD 1354 and submit it with the final design. Submit an updated or corrected checklist and draft DD 1354 with the certified final design. The Corps of Engineers will use these documents to complete the final DD 1354 upon completion of construction.

LIST OF ADDRESSES FOR REVIEWS

| ORGANIZATION | OFFICE SYMBOL | DRAWINGS & MANUALS | CID | COLOR BOARDS |
|--|--------------------------|-----------------------------------|------------|-------------------------|
| U.S. Army Engineer District, Louisville ATTN: CELRL-ED-MA (H. Fox) 600 Dr. Martin Luther King Jr. Place Louisville, KY 40202 | LRL | 8 | 0 | 0 |
| U.S. Corps of Engineers ATTN: CELRL-CD-W-W (K. Stegall) 2475 K Street, Building 52 Wright-Patterson AFB, Ohio 45433- 7645 | CELRL-CD-W-W | 2 | 1 | 1 |
| Department of the Air Force ATTN: 88 ABW/CECW (R. Parmenter) 5151 Wright Avenue Wright-Patterson AFB, Ohio 45433-5339 | 88 ABW/CECP | 4 1 * | 1 | 1 |
| Department of the Air Force ATTN: 88 SFS (D. Russell) 1800 Van Patton Drive Wright-Patterson AFB, Ohio 45433 | 88 SFS | 4 | 1 | 1 |
| Department of the Air Force ATTN: 88 ABW/EMO (J. Merryman) 5490 Pearson Road Wright-Patterson AFB, Ohio 45433 | 88 ABW/EMO | 1 | 0 | 0 |
| Department of the Air Force ATTN: AFMC CECC (M. Bartell) Room A107 4225 Logistics Avenue Wright-Patterson AFB, Ohio 45433- 5739 | AFMC/CECC | 1 | 0 | 0 |

All design submittal items (drawings, specifications, analyses, etc.) identified herein that are not included in the CID & SID requirements.

*** Full Size Drawings.**

-- End of Section --

SECTION 07412A

NON-STRUCTURAL METAL ROOFING

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

| | |
|-------------------|--|
| ASTM A 463/A 463M | (2000) Steel Sheet, Aluminum-Coated, by the Hot-Dip Process |
| ASTM A 792/A 792M | (1999) Steel Sheet, 55% Aluminum-Zinc Alloy-Coated by the Hot-Dip Process |
| ASTM C 518 | (1998) Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus |
| ASTM C 1289 | (1998) Faced Rigid Cellular Polyisocyanurate Thermal Insulation Board |

UNDERWRITERS LABORATORIES (UL)

| | |
|--------|--|
| UL 580 | (1994; Rev thru Feb 1998) Tests for Uplift Resistance of Roof Assemblies |
|--------|--|

1.2 SUBMITTALS

Government approval is required for submittals with a "G" designation; submittals not having a "G" designation are for information only. When used, a designation following the "G" designation identifies the office that will review the submittal for the Government. The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Metal Roofing; G

- a. Drawings consisting of catalog cuts, flashing details, erection drawings, shop coating and finishing specifications, and other data as necessary to clearly describe materials, sizes, layouts, construction details, fasteners, and erection. Drawings

shall be provided by the metal roofing manufacturer.

b. Drawings showing the UL 580, Class 90 tested roof system assembly.

SD-07 Certificates

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Sample Warranty for Non-Structural Metal Roofing System, and the completed 20-year Manufacturer's Material and Weathertightness Warranties.

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1.3 GENERAL REQUIREMENTS

The Contractor shall furnish a commercially available roofing system which satisfies the specified design and additional requirements contained herein. The roofing system shall be provided by the Contractor as a complete system, as tested and approved in accordance with UL 580. Roof panels, components, transitions, accessories, and assemblies shall be supplied by the same roofing system manufacturer.

1.3.1 Non-Structural Metal Roof System

The Non-Structural Metal Roof System covered under this specification shall include the entire roofing system; the metal roof panels, fasteners, connectors, roof securement components, and assemblies tested and approved in accordance with UL 580. The system shall be installed on a substrate. In addition, the system shall consist of panel finishes, slip sheet, insulation, vapor retarder, all accessories, components, and trim and all connections with roof panels. This includes roof penetration items such as vents, curbs, skylights; interior or exterior gutters and downspouts, eaves, ridge, hip, valley, rake, gable, wall, or other roof system flashings installed and any other components specified within this contract to provide a weathertight roof system; and items specified in other sections of the specifications that are part of the system.

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1.3.2 Manufacturer

The non-structural metal roofing system shall be the product of a manufacturer who has been in the practice of manufacturing metal roofs for a period of not less than 5 years and has been involved in at least five projects similar in size and complexity to this project.

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1.3.3 Installer

The installer shall be certified by the metal roof manufacturer for installation of this roof, by letter from the roof system manufacturer, with all warranties of this section remaining active. The installer may be either employed by the manufacturer or be an independent installer. The installer shall have been actively installing this type of roof for a

minimum of 5 years and shall provide documentation of 3 completed projects of equal magnitude.

*1

1.4 DESIGN LOADS

Non-structural Metal Roof System assemblies shall be tested as defined in UL 580 and shall be capable of resisting the wind uplift pressures shown on the contract drawings or, as a minimum, shall be approved to resist wind uplift pressures of UL 580, Class 90.

1.5 PERFORMANCE REQUIREMENTS

The metal roofing system supplied shall conform to the roof slope, the underlayment, and uplift pressures shown on the contract drawings. The Contractor shall furnish a commercially available roofing system which satisfies all the specified requirements.

1.6 DELIVERY AND STORAGE

Materials shall be delivered to the site in a dry and undamaged condition and stored out of contact with the ground. Materials shall be covered with weather tight coverings and kept dry. Material shall not be covered with plastic where such covering will allow sweating and condensation. Plastic may be used as tenting with air circulation allowed. Storage conditions shall provide good air circulation and protection from surface staining.

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1.7 WARRANTIES

The Non-Structural Metal Roofing System shall be warranted as outlined below. Any emergency temporary repairs conducted by the owner shall not negate the warranties.

1.7.1 Roof Panel Material

Durability of the roof panels due to rupture, structural failure or perforation shall be warranted for a period of 20 years by the manufacturer. A specimen copy of the document shall be submitted, clearly stating the conditions under which the warranty is valid.

1.7.2 Prepainted Baked-On Finishes

Exterior color finish for roof panels, and color finish for trim, fascia panels, edge flashing, gutters and downspouts shall be warranted by the manufacturer for 20 years against blistering, peeling, cracking, flaking, checking, chipping, and excessive color change or chalking to be warranted for 20 years. Color changes shall not exceed 9 N.B.S. units for white or 5 N.B.S. units for any color per ASTM D-2244 64T and chalking shall not be less than a rating of 6 for white or 8 for any other color per ASTM D-659. Roof panels shall have a prepainted baked-on fluoropolymer enamel finish equivalent to KYNAR 500. All trim components shall have a prepainted baked-on fluoropolymer enamel finish equivalent to KYNAR 500 on all exposed surfaces.

1.7.3 Weathertightness

a. The entire roof system, including all subframing, roof panels, flashings, curbs interior gutters, etc., shall be warranted against leaks for a period of twenty (20) years.

b. The warranty shall be issued to the Government by the manufacturer.

c. The maximum liability which the manufacturer has is limited to the total contract for the installed roof system.

1.7.4 Facility

All work on the Fully Contained Small Arms Range shall be guaranteed in accordance with the provision of the warranty section.

*1

1.8 COORDINATION MEETING

A coordination meeting shall be held within 45 days after contract award for mutual understanding of the metal roofing system contract requirements.

This meeting shall take place at the building site and shall include representatives from the Contractor, the roofing system manufacturer, the roofing supplier, the erector, the designer, and the Contracting Officer. All items required by paragraph SUBMITTALS shall be discussed, including applicable standard manufacturer shop drawings, and the approval process. The Contractor shall coordinate time and arrangements for the meeting.

PART 2 PRODUCTS

2.1 ROOF PANELS

Panels shall be steel and shall have a factory color finish. Length of sheets shall be sufficient to cover the entire length of any unbroken roof slope for slope lengths that do not exceed 30 feet. Sheets longer than 30 feet may be furnished if approved by the Contracting Officer. Width of sheets shall provide nominal [12] [_____] inches of coverage in place. Design provisions shall be made for thermal expansion and contraction consistent with the type of system to be used. All sheets shall be either square-cut or miter-cut. The ridge cap shall be installed as recommended by the metal roofing manufacturer. Height of corrugations, ribs, or seams, at overlap of adjacent roof sheets shall be the building manufacturer's standard for the indicated roof slope.

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2.1.1 Steel Panels

Aluminum-zinc alloy coated steel conforming to ASTM A 792/A 792M, AZ 55 coating; or aluminum-coated steel conforming to ASTM A 463/A 463M, Type 2, coating designation T2 65. Refer to Section 01020, 3.3.3.5 for roof panel fabrication and finish requirements. Panels that have become wet during

shipment and have started to oxidize shall be rejected.

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2.2 ACCESSORIES

Accessories shall be compatible with the roofing furnished. Flashing, trim, metal closure strips, caps, and similar metal accessories shall be not less than the minimum thicknesses specified for roof panels. Exposed metal accessories shall be finished to match the panels furnished. Molded closure strips shall be bituminous-saturated fiber, closed-cell or solid-cell synthetic rubber or neoprene, or polyvinyl chloride premolded to match configuration of the panels and shall not absorb or retain water.

2.3 FASTENERS

Fasteners for roof panels shall be zinc-coated steel, aluminum, or nylon capped steel, type and size as recommended by the manufacturer to meet the performance requirements. Fasteners for accessories shall be the manufacturer's standard. Exposed roof fasteners shall be gasketed or have gasketed washers on the exterior side of the roofing to waterproof the fastener penetration. Washer material shall be compatible with the panels; and gasketed portion of fasteners or washers shall be neoprene or other equally durable elastomeric material approximately 1/8 inch thick.

2.4 UNDERLAYMENTS

2.4.1 Rubberized Underlayment

Rubberized underlayment shall be equal to "Ice and Water Shield" as manufactured by Grace Construction Products, "Winterguard" as manufactured by CertainTeed Corporation, or "Weather Watch Ice and Water Barrier" as manufactured by GAF Building Materials Corporation.

2.5 INSULATION

Thermal resistance of insulation shall be not less than the R-values shown on the contract drawings. R-values shall be determined at a mean temperature of 75 degrees F in accordance with ASTM C 518. Insulation shall be a standard product with the insulation manufacturer, factory marked or identified with insulation manufacturer's name or trademark and R-value. Identification shall be on individual pieces or individual packages.

2.5.1 Rigid Board Insulation for Use Above a Roof Deck

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2.5.1.1 Polyisocyanurate

Polyisocyanurate insulation shall conform to ASTM C 1289, Type I, Class 2 (having a minimum recovered material of core material in the polyisocyanurate portion). The polyisocyanurate board may be a composite of insulation with a laminated UL approved rigid sheathing board. This composite may be used in place of a separate sheathing board.

2.6 SHEATHING

Sheathing (substrate) shall be a UL approved rigid board that is applicable to the installation of the non-structural metal roofing. The sheathing board shall be a gypsum or wood product and may be a separate board from the insulation or laminated to the insulation. But in no case shall the sheathing be used as an anchor base for the roofing panel anchors unless it is noted in a UL Class 90 design.

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PART 3 EXECUTION

3.1 INSTALLATION

Installation shall be in accordance with the manufacturer's erection instructions and drawings. Dissimilar materials which are not compatible when contacting each other shall be insulated by means of gaskets or insulating compounds. Improper or mislocated drill holes shall be plugged with an oversize screw fastener and gasketed washer; however, sheets with an excess of such holes or with such holes in critical locations shall not be used. Exposed surfaces and edges shall be kept clean and free from sealant, metal cuttings, hazardous burrs, and other foreign material. Stained, discolored, or damaged sheets shall be removed from the site.

3.1.1 Roofing

Side laps shall be laid away from the prevailing winds. Side and end lap distances, joint sealing, and fastening and spacing of fasteners shall be in accordance with manufacturer's standard practice. Spacing of exposed fasteners shall present an orderly appearance. Side laps and end laps of roof panels and joints at accessories shall be sealed. Fasteners shall be driven normal to the surface. Method of applying joint sealant shall conform to the manufacturer's recommendation to achieve a complete weathertight installation. Accessories shall be fastened into substrate, except as otherwise approved. Closure strips shall be provided as indicated and where necessary to provide weathertight construction.

3.1.2 Field Forming of Roof Panels for Unique Areas

When roofing panels are formed from factory-color-finished steel coils at the project site, the same care and quality control measures that are taken in shop forming of roofing panels shall be observed. Rollformer shall be operated by the metal roofing manufacturer's approved installer. In cold weather conditions, preheating of the steel coils to be field formed shall be performed as necessary just prior to the rolling operations.

3.1.3 Underlayment

Underlayment types shall be installed where shown on the drawings; they shall be installed directly over the substrate. If a roof panel rests directly on the underlayments, a slip sheet shall be installed as a top layer, beneath the metal roofing panels, to prevent adhesion. All underlayments shall be installed so that successive strips overlap the next lower strip in shingle fashion. Underlayments shall be installed in

accordance with the manufacturer's written instructions. The underlayments shall ensure that any water that penetrates below the metal roofing panels will drain outside of the building envelope.

3.2 INSULATION INSTALLATION

Insulation shall be installed as indicated and in accordance with manufacturer's instructions. Insulation shall be continuous over entire roof surface. Where expansion joints, terminations, and other connections are made, the cavity shall be filled with batt insulation and vapor retarder providing equivalent R-Value and perm rating as remaining insulation.

3.2.1 Board Insulation in Warm Climates

Rigid or semirigid board insulation shall be laid in close contact. If more than one layer of insulation is required, joints in the second layer shall be offset from joints in the first layer. A layer of blanket insulation shall be placed over the rigid or semirigid board insulation to be compressed against the underside of the metal roofing to reduce thermal bridging, dampen noise, and prevent roofing flutter. This layer of blanket insulation shall be compressed a minimum of 50 percent. Rigid insulation shall be attached to the metal roof deck with bearing plates and fasteners, as recommended by the insulation manufacturer, so that the insulation joints are held tight against each other, with no less than 1 fastener and bearing plates per 4 square feet of insulation. Layout and joint pattern of insulation and fasteners shall be indicated on the shop drawings.

3.2.2 Board Insulation in Cool Climates

A layer of unfaced blanket insulation shall be placed over the board insulation and held tight against the metal roofing.

3.3 SLIP SHEET INSTALLATION

A slip sheet shall be laid over the blanket insulation facing to prevent the vinyl facing from adhering to the metal roofing.

-- End of Section --

SECTION 08110

STEEL DOORS AND FRAMES

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)

| | |
|-------------|--|
| ANSI A250.4 | (1994) Test Procedure and Acceptance Criteria for Physical Endurance for Steel Doors and Hardware Reinforcings |
| ANSI A250.6 | (1997) Hardware on Standard Steel Doors (Reinforcement - Application) |
| ANSI A250.8 | (1998) SDI-100 Recommended Specifications for Standard Steel Doors and Frames |

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

| | |
|-------------------|--|
| ASTM A 653/A 653M | (2000) Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process |
| ASTM A 924/A 924M | (1999) General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process |
| ASTM C 578 | (1995) Rigid, Cellular Polystyrene Thermal Insulation |
| ASTM C 591 | (1994) Unfaced Preformed Rigid Cellular Polyisocyanurate Thermal Insulation |
| ASTM C 612 | (1993) Mineral Fiber Block and Board Thermal Insulation |
| ASTM D 2863 | (1997) Measuring the Minimum Oxygen Concentration to Support Candle-Like Combustion of Plastics (Oxygen Index) |
| ASTM E 283 | (1991) Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors |

Under Specified Pressure Differences
Across the Specimen

DOOR AND HARDWARE INSTITUTE (DHI)

DHI A115 (1991) Steel Door Preparation Standards
(Consisting of A115.1 through A115.6 and
A115.12 through A115.18)

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

NFPA 80 (1999) Fire Doors and Fire Windows

NFPA 105 (1999) The Installation of Smoke-Control
Door Assemblies

NFPA 252 (1999) Standard Methods of Fire Tests of
Door Assemblies

STEEL DOOR INSTITUTE (SDOI)

SDI 105 (1998) Recommended Erection Instructions
for Steel Frames

SDI 111-F Recommended Existing Wall Anchors for
Standard Steel Doors and Frames

SDI 113 (1979) Apparent Thermal Performance of
STEEL DOOR and FRAME ASSEMBLIES

UNDERWRITERS LABORATORIES (UL)

UL 10B (1997) Fire Tests of Door Assemblies

1.2 SUBMITTALS

Submit the following in accordance with Section 01330, "Submittal
Procedures."

SD-02 Shop Drawings

Doors; G

Frames; G

Accessories

[Weatherstripping]

Show elevations, construction details, metal gages, hardware
provisions, method of glazing, and installation details.

Schedule of doors; G

Schedule of frames; G

Submit door and frame locations.

SD-03 Product Data

Doors; G

Frames; G

Accessories

Submit manufacturer's descriptive literature for doors, frames, and accessories. Include data and details on door construction, panel (internal) reinforcement, insulation, and door edge construction. When "custom hollow metal doors" are provided in lieu of "standard steel doors," provide additional details and data sufficient for comparison to ANSI A250.8 requirements.

1.3 DELIVERY, STORAGE, AND HANDLING

Deliver doors, frames, and accessories undamaged and with protective wrappings or packaging. Provide temporary steel spreaders securely fastened to the bottom of each welded frame. Store doors and frames on platforms under cover in clean, dry, ventilated, and accessible locations, with 1/4 inch airspace between doors. Remove damp or wet packaging immediately and wipe affected surfaces dry. Replace damaged materials with new.

PART 2 PRODUCTS

2.1 HEAVY DUTY DOORS

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ANSI A250.8, Level 2 (18 gage face), physical endurance performance Level B (seamless design), with core construction as required by the manufacturer for interior doors and for exterior doors, of size(s) and design(s) indicated. Where vertical stiffener cores are required, the space between the stiffeners shall be filled with mineral board insulation.

2.2 EXTRA HEAVY DUTY DOORS

ANSI A250.8, Level 3 (16 gage face), physical endurance performance Level A (seamless design), with core construction as required by the manufacturer for sound and pressure controlled interior doors, of size(s) and design(s) indicated.

*1

2.3 INSULATED STEEL DOOR SYSTEMS

Insulated steel doors shall have a core of polyurethane foam and an R factor of 10.0 or more (based on a k value of 0.16); face sheets, edges, and frames of galvanized steel not lighter than 23 gage, 16 gage, and 16

gage respectively; magnetic weatherstripping; nonremovable-pin hinges; thermal-break aluminum threshold; and vinyl door bottom. Doors and frames shall receive phosphate treatment, rust-inhibitive primer, and baked acrylic enamel finish. Doors shall have been tested in accordance with ANSI A250.4 and shall have met the requirements for Level C.

2.4 SOUND RATED STEEL DOORS

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Sound rated doors shall be provided at locations shown on the drawings. Door assemblies shall consist of door, hardware, frame, threshold, and adjustable gaskets. The assembly shall have a Sound Transmission Class (STC) rating of 61 when tested in accordance with ASTM E 90. Manufacturer's descriptive data, and certificate or test report showing compliance with the specified requirements shall be submitted. The Contractor shall perform a field test on the door assembly to determine if the STC is within 2 points of the equivalent laboratory tested product. If the test reveals a less than acceptable STC, the Contractor shall replace the door assembly and test the new assembly to provide an acceptable rating. Provide laboratory tested, acoustic doors and frames that are factory assembled and functionally tested for alignment, fit and ease of function prior to shipment. Frame shall be split and of a width to receive a door thickness required for STC 61 rating, and be part of the sound rated door tested assembly.

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2.5 ACCESSORIES

2.5.1 Center Mullions

For pairs of steel doors which are indicated in the Door Schedule to have removable mullions. Provide a standard double rabbited shape that is removable.

2.5.2 Moldings

Provide moldings around glass of interior and exterior doors and louvers of interior doors. Provide nonremovable moldings on outside of exterior doors and on corridor side of interior doors. Other moldings may be stationary or removable. Secure inside moldings to stationary moldings, or provide snap-on moldings. Muntins shall interlock at intersections and shall be fitted and welded to stationary moldings.

2.6 INSULATION CORES

Insulated cores shall be of type specified, and provide an apparent U-factor of .48 in accordance with SDI 113 and shall conform to:

- a. Rigid Polyurethane Foam: ASTM C 591, Type 1 or 2, foamed-in-place or in board form, with oxygen index of not less than 22 percent when tested in accordance with ASTM D 2863; or
- b. Rigid Polystyrene Foam Board: ASTM C 578, Type I or II; or

c. Mineral board: ASTM C 612, Type I.

2.7 STANDARD STEEL FRAMES

ANSI A250.8, except as otherwise specified. Form 14 gage frames to sizes and shapes indicated, with welded corners. Provide steel frames for doors, transoms, sidelights, mullions, cased openings, and interior glazed panels, unless otherwise indicated.

2.7.1 Welded Frames

Continuously weld frame faces at corner joints. Mechanically interlock or continuously weld stops and rabbets. Grind welds smooth.

2.7.2 Mullions and Transom Bars

Mullions and transom bars shall be closed or tubular construction and shall member with heads and jambs butt-welded thereto. Bottom of door mullions shall have adjustable floor anchors and spreader connections.

2.7.3 Stops and Beads

Form stops and beads from 20 gage steel. Provide for glazed and other openings in standard steel frames. Secure beads to frames with oval-head, countersunk Phillips self-tapping sheet metal screws or concealed clips and fasteners. Space fasteners approximately 12 to 16 inches on centers. Miter molded shapes at corners. Butt or miter square or rectangular beads at corners.

2.7.4 Terminated Stops

Where indicated, terminate interior door frame stops 6 inches above floor. Do not terminate stops of frames for soundproof doors.

2.7.5 Cased Openings

Fabricate frames for cased openings of same material, gage, and assembly as specified for metal door frames, except omit door stops and preparation for hardware.

2.7.6 Anchors

Provide anchors to secure the frame to adjoining construction. Provide steel anchors, zinc-coated or painted with rust-inhibitive paint, not lighter than 18 gage.

2.7.6.1 Wall Anchors

Provide at least three anchors for each jamb. For frames which are more than 7.5 feet in height, provide one additional anchor for each jamb for each additional 2.5 feet or fraction thereof.

- a. Masonry: Provide anchors of corrugated or perforated steel straps or 3/16 inch diameter steel wire, adjustable or T-shaped;

- b. Stud partitions: Weld or otherwise securely fasten anchors to backs of frames. Design anchors to be fastened to closed steel studs with sheet metal screws, and to open steel studs by wiring or welding;
- c. Completed openings: Secure frames to previously placed concrete or masonry with expansion bolts in accordance with SDI 111-F; and

2.7.6.2 Floor Anchors

Provide floor anchors drilled for 3/8 inch anchor bolts at bottom of each jamb member. Where floor fill occurs, terminate bottom of frames at the indicated finished floor levels and support by adjustable extension clips resting on and anchored to the structural slabs.

2.8 FIRE AND SMOKE DOORS AND FRAMES

NFPA 80 and NFPA 105 and this specification. The requirements of NFPA 80 and NFPA 105 shall take precedence over details indicated or specified.

2.8.1 Labels

Fire doors and frames shall bear the label of Underwriters Laboratories (UL), Factory Mutual Engineering and Research (FM), or Warnock Hersey International (WHI) attesting to the rating required. Testing shall be in accordance with NFPA 252 or UL 10B. Labels shall be metal with raised letters, and shall bear the name or file number of the door and frame manufacturer. Labels shall be permanently affixed at the factory to frames and to the hinge edge of the door. Door labels shall not be painted.

2.8.2 Oversized Doors

For fire doors and frames which exceed the size for which testing and labeling are available, furnish certificates stating that the doors and frames are identical in design, materials, and construction to a door which has been tested and meets the requirements for the class indicated.

2.8.3 Astragal on Fire and Smoke Doors

On pairs of labeled fire doors, conform to NFPA 80 and UL requirements. On smoke control doors, conform to NFPA 105.

2.9 WEATHERSTRIPPING

As specified in Section 08710, "Door Hardware."

2.9.1 Integral Gasket for Pressure Control Doors

Black synthetic rubber gasket with tabs for factory fitting into factory slotted frames, or extruded neoprene foam gasket made to fit into a continuous groove formed in the frame, may be provided in lieu of head and jamb seals specified in Section 08710, "Door Hardware." Insert gasket in groove after frame is finish painted. Air leakage of weatherstripped doors

shall not exceed 1.25 cubic feet per minute of air per square foot of door area when tested in accordance with ASTM E 283.

]2.10 HARDWARE PREPARATION

Provide minimum hardware reinforcing gages as specified in ANSI A250.6. Drill and tap doors and frames to receive finish hardware. Prepare doors and frames for hardware in accordance with the applicable requirements of ANSI A250.8 and ANSI A250.6. For additional requirements refer to DHI A115.

Drill and tap for surface-applied hardware at the project site. Build additional reinforcing for surface-applied hardware into the door at the factory. Locate hardware in accordance with the requirements of ANSI A250.8, as applicable. Punch door frames, with the exception of frames that will have weatherstripping or soundproof gasketing, to receive a minimum of two rubber or vinyl door silencers on lock side of single doors and one silencer for each leaf at heads of double doors. Set lock strikes out to provide clearance for silencers.

2.11 FINISHES

2.11.1 Factory-Primed Finish

All surfaces of doors and frames shall be thoroughly cleaned, chemically treated and factory primed with a rust inhibiting coating as specified in ANSI A250.8.

2.11.2 Hot-Dip Zinc-Coated and Factory-Primed Finish

Fabricate exterior doors and frames from hot dipped zinc coated steel, alloyed type, that complies with ASTM A 924/A 924M and ASTM A 653/A 653M. The Coating weight shall meet or exceed the minimum requirements for coatings having 0.4 ounces per square foot, total both sides, i.e., A40. Repair damaged zinc-coated surfaces by the application of zinc dust paint. Thoroughly clean and chemically treat to insure maximum paint adhesion. Factory prime as specified in ANSI A250.8.

2.12 FABRICATION AND WORKMANSHIP

Finished doors and frames shall be strong and rigid, neat in appearance, and free from defects, waves, scratches, cuts, dents, ridges, holes, warp, and buckle. Molded members shall be clean cut, straight, and true, with joints coped or mitered, well formed, and in true alignment. Dress exposed welded and soldered joints smooth. Design door frame sections for use with the wall construction indicated. Corner joints shall be well formed and in true alignment. Conceal fastenings where practicable. On wraparound frames for masonry partitions, provide a throat opening 1/8 inch larger than the actual masonry thickness. Design frames in exposed masonry walls or partitions to allow sufficient space between the inside back of trim and masonry to receive calking compound.

2.12.1 Grouted Frames

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For frames to be installed in all masonry walls shall be filled with mortar

or grout, fill the stops with strips of rigid insulation to keep the grout out of the stops and to facilitate installation of stop-applied head and jamb seals.

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PART 3 EXECUTION

3.1 INSTALLATION

3.1.1 Frames

Set frames in accordance with SDI 105. Plumb, align, and brace securely until permanent anchors are set. Anchor bottoms of frames with expansion bolts or powder-actuated fasteners. Build in or secure wall anchors to adjoining construction. Backfill frames with mortar. When an additive is provided in the mortar, coat inside of frames with corrosion-inhibiting bituminous material. For frames in exterior walls, ensure that stops are filled with rigid insulation before grout is placed.

3.1.2 Doors

Hang doors in accordance with clearances specified in ANSI A250.8 and necessary for gaskets and weatherstrips. After erection and glazing, clean and adjust hardware.

3.1.3 Fire and Smoke Doors and Frames

Install fire doors and frames, including hardware, in accordance with NFPA 80. Install fire rated smoke doors and frames in accordance with NFPA 80 and NFPA 105.

3.2 PROTECTION

Protect doors and frames from damage. Repair damaged doors and frames prior to completion and acceptance of the project or replace with new, as directed. Wire brush rusted frames until rust is removed. Clean thoroughly. Apply an all-over coat of rust-inhibitive paint of the same type used for shop coat.

3.3 CLEANING

Upon completion, clean exposed surfaces of doors and frames thoroughly. Remove mastic smears and other unsightly marks.

-- End of Section --

SECTION 12705

FURNITURE SYSTEMS

PART 1 GENERAL

1.1 REFERENCES

The publications listed below form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only.

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

| | |
|------------|---|
| ASTM C 423 | (1999a) Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method |
| ASTM E 84 | (2000a) Surface Burning Characteristics of Building Materials |
| ASTM E 290 | (1997a) Bend Testing of Material for Ductility |

BIFMA INTERNATIONAL (BIFMA)

| | |
|------------|------------------------------|
| BIFMA X5.5 | (1989) Desk Products - Tests |
| BIFMA X5.6 | (1993) Panel Systems - Tests |

NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)

| | |
|-----------|--|
| NEMA WD 1 | (1999) General Color Requirements for Wiring Devices |
| NEMA WD 6 | (1997) Wiring Devices - Dimensional Requirements |

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

| | |
|----------|--|
| NFPA 70 | (1999) National Electrical Code |
| NFPA 101 | (2000) Life Safety Code |
| NFPA 255 | (2000) Method of Test of Surface Burning Characteristics of Building Materials |
| NFPA 265 | (1998) Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile Wall Coverings |

UNDERWRITERS LABORATORIES (UL)

UL 723 (1996; Rev thru Dec 1998) Test for Surface
Burning Characteristics of Building
Materials

UL 1286 (1999) Office Furnishings

1.2 GENERAL

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This specification establishes the minimum requirements for the acquisition and installation of a complete and usable system of workstations composed of panels, supporting components, electrical hardware, communications, special electrical features, and accessories. Workstation requirements and configurations shall be in accordance with the furniture layout and typical workstation types shown in drawings and specified herein. Components, and hardware shall be provided by a single manufacturer and shall be a standard product as shown in the most recent published price lists or amendments. Electrical components shall be products of a single manufacturer to the extent practicable (different types of components may be of different manufacturers, but all units of a given component shall be from a single source). The completed installation shall comply with NFPA 70 and NFPA 101.

The Contractor shall coordinate the work of this section with that to be performed under other sections. This specification may include items which are not manufactured by the furniture manufacturer; any such items shall be furnished by the Contractor under this section.

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1.3 SUBMITTALS

The following shall be submitted in accordance with Section 01330 SUBMITTAL PROCEDURES:

SD-02 Shop Drawings

Drawings showing the proposed workstation installation at a scale of 1/4 inch = 1 foot, unless otherwise specified. Drawings showing communications, electronic data processing (EDP) and local area network (LAN) locations may be provided as a separate submittal from remaining workstation drawings. Drawing requirements, which are the furniture manufacturer's responsibility, shall be provided as a single submittal. Electronic drawings shall be provided to the user for future re-configuration in the software package requested by the user. The electronic drawings shall include all modifications made during installation.

a. Overall reference drawings: Drawings showing workstation locations and overall plan view within each floor. The scale shall be 1/16 inch = 1 foot 1/8 inch = 1 foot. Layouts shall reflect field verified conditions.

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b. Installation drawings: Drawings showing workstations, panels, components, and plan view within each floor. Workstations shall be identified by workstation type. Scale of drawings shall be identical to Architectural plans. Installation drawings shall reflect field verified conditions.

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c. Panel drawings: Panel drawings showing panel locations and critical dimensions from finished face of walls, columns, panels, including clearances and aisle widths. Assemblies shall be keyed to a legend which shall include width, height, configuration and composition of frame covers finishes and fabrics (if different selections exist within a project), power or nonpower, connectors and wall mount hardware. Drawings shall reflect field verified conditions.

d. Electrical drawings: Drawings showing power provisions including type and location of feeder components (service entry poles, base or ceiling feeds), activated outlets and other electrical components. Wiring configuration (circuiting, switching, internal and external connections) shall be identified and a legend provided as applicable.

e. Communication drawings showing telephone provisions: Drawings indicating the type and location of feeder components and outlets with wiring configuration identified where applicable.

SD-03 Product Data

Manufacturer's product and construction specifications which provide technical data for furniture system and components specified, including task lighting and illumination performance information. Literature shall include adequate information to verify that the proposed product meets the specification.

Warranty

Two copies of the warranty.

SD-04 Samples

Four sets of the following finish samples. The Government reserves the right to reject any finish samples that do not satisfy the construction or color requirements. The Contractor shall submit additional samples as required to obtain final approval. Work shall not proceed without sample approval in writing from the Contracting Officer.

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a. Panel fabric. Minimum 6 x 6 inches with label designating the manufacturer, color, fiber content, fabric weight and fire

rating.

***1**

b. Panel, laminate work surface, modesty panel, and component finish. Minimum 2-1/2 x 3 inches with label designating the manufacturer, material composition, thickness, color, and finish.

SD-07 Certificates

Two complete sets of certificates attesting that the proposed workstation meets specified requirements. The certificate shall be dated after the award of contract, shall name the project, and shall list specific requirements being certified.

SD-08 Statements

Qualifications

One statement indicating that the manufacturer has specialized in commercial prewired workstation manufacturing for the past 5 years.

SD-10 Operation and Maintenance Data

Product Assembly Manual

One set of assembly manuals describing assembly and reconfiguration procedures.

Product Maintenance Manuals

One set of maintenance manuals describing proper cleaning and minor repair procedures.

1.4 QUALIFICATIONS

The manufacturer shall specialize in production of commercial office furniture including prewired workstations for a minimum of 5 years, and an established sales base of \$40,000,000.

1.5 DELIVERY, STORAGE, AND HANDLING

Components shall be delivered to the jobsite in the manufacturer's original packaging with the brand, item identification, and project reference clearly marked thereon. Components shall be stored in a dry location that is adequately ventilated and free from dirt and dust, water, and other contaminants, and in a manner that permits easy access for inspection and handling.

1.6 PATTERN AND COLOR

Pattern and color of finishes and fabrics for all as shown on the drawings.

1.7 ALTERNATE DESIGN

Manufacturers who are unable to provide workstations that conform exactly to the furniture layouts and typical workstation types shown in the contract drawings, may submit alternate designs for consideration by the Contracting Officer. Alternate designs must meet or exceed the following criteria. Alternate designs that are submitted but do not meet these criteria will be rejected.

1.7.1 Workstation Size and Configuration

The alternate design shall provide workstations and components of the same basic size and configuration shown, with only the sizes of the individual components within the workstation changed to meet the standard product of the manufacturer.

1.7.2 Component Requirements

The types of components or elements utilized shall be as shown on the drawings and as specified in PART 2 PRODUCTS of this specification.

1.7.3 Layout

The storage capacity, number of workstations accommodated, width of aisles, or workstation configuration shall not be reduced.

1.7.4 Wiring Configuration

Alternate configurations must support the circuiting and connection capabilities identified under the provisions pertaining to power distribution of paragraph ELECTRICAL. Generally any alternate will be acceptable which involves only a variation in size or quantity that exceeds the specified configuration.

1.8 WARRANTY

The Contractor shall warrant the furniture systems for a period of 10 years with the following exceptions: fabrics and other covering materials, and paper handling products shall be guaranteed for 3 years, and task lights shall be warranted for 2 years. Warranties shall be signed by the authorized representative of the manufacturer. Warranties accompanied by document authenticating the signer as an authorized representative of the guarantor, shall be presented to the Contracting Officer upon the completion of the project. The Contractor shall guarantee that the workstation products and installation are free from any defects in material and workmanship from the date of delivery.

PART 2 PRODUCTS

2.1 PERFORMANCE AND SAFETY REQUIREMENTS

Recyclable materials shall conform to EPA requirements in accordance with Section 01670 RECYCLED / RECOVERED MATERIALS. Panels, spine walls, frames and frame covers, connection system, work surfaces, pedestals, shelf units,

flipper door units, lateral files, locks, accessories, and miscellaneous hardware shall meet testing as specified. ISO 9001 certified manufacturers may perform in-house testing. Manufacturers not ISO 9001 qualified shall be required to produce testing by an independent testing laboratory. Component specific requirements are listed in appropriate paragraphs.

2.1.1.1 Selected Components

Workstations shall conform to the requirements of BIFMA X5.5 and BIFMA X5.6 with the following exceptions: Panels, spine walls and panel, or spine wall supported components shall be tested and pass in accordance with the requirements of BIFMA ANSI/BIFMA X5.6 and representative items shall be selected for testing based on worst case situations (i.e., the deepest and widest work surface or shelf). The keyboard drawer or shelf test shall be performed applying a 50 lb load to the center of the keyboard shelf for a period of 5 minutes. Any loosening of attachments, permanent deflection or damage to the operation of the drawer or shelf will be cause for rejection.

2.1.1.2 Panel Acoustics

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Acoustical panels shall have a minimum noise reduction coefficient (NRC) of 0.65 when tested in accordance with ASTM C 423 and a minimum sound transfer coefficient (STC) 11 when tested in accordance with ASTM E 290. The test shall be conducted on the entire assembled panel, full face area (the complete core, adhesive, decorative fabric, frame and joining components).

***1**

2.1.1.3 Fire Safety

Components shall meet requirements for flame spread and smoke development as specified by NFPA 101 except as follows. Testing shall have been conducted in accordance with either ASTM E 84, UL 723, or NFPA 255 on the entire assembled panel and each different combination of fabric and interior construction. In addition, fabric shall meet the requirements of NFPA 265. Panel flame spread shall not exceed 25 (Class A) and panel smoke development shall not exceed 450 for Class A.

2.1.1.4 General Safety

Workstation products shall be free of rough or sharp edges. Components shall have a positive, integral locking device which secures components without the use of additional screws or clamps to prevent the components from being accidentally pulled or knocked off the panels.

2.1.1.5 Electrical System

Task lights shall be UL approved and shall meet the requirements of NFPA 70. The electrical system shall meet the requirements of UL 1286.

***1**

2.2 PANEL SYSTEM

2.2.1 Panel System

Accessories and appurtenances for a completely finished panel assembly shall be supplied complete with the system. The system shall be capable of structurally supporting cantilevered work surfaces, shelves, files, and other components in the configurations shown on the drawings. The panel system shall be capable of structurally supporting more than one fully loaded component per panel per side. Panels shall tackable. The panel system shall be available in a variety of nominal widths and heights as designated on the drawings. Heights shall be measured from the finished floor to the top of the panel. Powered and nonpowered panels shall be compatible in height. Panel heights shall be coordinated with the HVAC and electrical designs.

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2.2.2 Finishes

a. The panels shall be available in the following options: acoustical, and non-acoustical. Exposed panel trim shall have a factory epoxy powder finish. Each fabric-faced panel shall have a seamless width of fabric stretched over the entire face of the panel and the color of each fabric utilized shall be consistent throughout the installation. The fabric shall be attached securely and continuously along the entire perimeter of the panel and shall allow for easy removal and replacement in the field.

2.2.3 Raceways

Raceways shall be an integral part of the panel. Panels, whether powered or nonpowered, shall be provided with a raceway cover. Magnet held base covers will not be accepted.

2.2.4 Leveling Glides

The system shall provide precise alignment of adjacent panels and shall include leveling glides to compensate for uneven floors. On panel-to-panel products, each panel shall have 2 leveling glides. On panel-to-post products each connector shall contain a leveling glide. A minimum 3/4 inch adjustment range is required for all systems.

2.2.5 Wall Mounted Panels

Wall-mount accessories shall be used when it is necessary to attach panels or vertical panel-frame assemblies to the building walls. Wall panels shall have structural support as required.

2.3 WORK SURFACES

Work surfaces shall be constructed to prevent warpage. Work surfaces shall be either fully supported from the panels or supported jointly by the panels and supplemental legs, pedestals, or furniture end panels. Supplemental end supports shall be used only under work surfaces when the work station configuration does not permit full support by the panels. Metal support brackets shall be used to support work surfaces from the panels, provide metal-to-metal fitting to the vertical uprights of the

panels, shall be vertically adjustable, and shall lock the work surfaces in place without panel modifications. Abutting work surfaces shall mate closely and be at equal heights when used in side-by-side configurations in order to provide a continuous and level work surface. Work surfaces shall either have pre-drilled holes to accommodate storage components, pedestals and additional supports, or holes shall be able to be drilled at the job site to accommodate these items. Work surfaces shall be provided in sizes and configurations shown on the drawings. Work surfaces abutting at equal heights shall provide a continuous and level work surface. Corner work surfaces, peninsula work surfaces, shall be provided as shown on the drawings and shall include hardware necessary to provide firm and rigid support.

2.3.1 Finishes

The work surfaces shall have a finished top surface of high pressure plastic laminate, or veneer and shall have a smoothly finished underside. The work surface shall not be affected by ordinary household solvents, acids, alcohols, or salt solutions, and shall be capable of being cleaned with ordinary household cleaning solutions. Metal support brackets shall match the color and finish of trim. Edges shall be post formed vinyl molding or solid wood.

2.4 PEDESTALS

Drawer configurations and pedestal height shall be as shown on the drawings.

2.4.1 Construction

With the exception of drawer fronts, pedestals and drawers shall be of steel construction. Drawer faces shall be securely attached to the drawer front. Pedestals shall be attached to the worksurface.

2.4.2 Finishes

The finish of steel surfaces shall be a factory baked enamel finish. Drawer fronts shall be steel or veneer.

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2.4.3 Drawer Requirements

Pedestals shall be field interchangeable from left to right, and right to left, and shall retain the pedestal locking system capability. Pedestals shall be designed to protect wires from being damaged by drawer operation. Pedestals shall be work surface hung, or shall support work surfaces, or shall be free standing; as shown. Drawers shall stay securely closed when in the closed position and each drawer shall contain a safety catch to prevent accidental removal when fully open. File drawers shall have either a cradle type or full extension ball bearing suspension with hanging folder frames or compressor dividers. File drawers shall be 12 inch high. Box drawers shall be provided with pencil trays and one adjustable divider.

2.5 STORAGE

Overhead storage shall be provided in the sizes and configurations shown on the drawings. Overhead cabinets shall accommodate task lighting and shall have a depth to accommodate a standard three ring binder.

2.5.1 Overhead Cabinet Construction

Overhead cabinet unit shall be of metal construction with formed edges. Units shall remain securely fastened when in the locked position. Doors shall utilize a suspension system.

2.5.2 Finish

Metal doors shall have an exterior finish of factory baked enamel or a factory installed fabric covering and an interior finish of factory baked enamel. Metal drawers shall have a factory baked enamel finish.

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2.6 ACCESSORIES

2.6.1 Coat Storage

One panel mounted coat hook per workstation occupant shall be provided at each workstation.

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2.6.2 Keyboard Tray

Work surfaces shall be capable of accepting an articulating keyboard. The keyboard tray shall have the capability to be fully recessed under the work surface and extend to give the user full access to the keyboard. Side travel rotation shall be a 180-degree swing. The keyboard tray shall have tilting capability and shall contain a wrist support. It should also include a slideout mouse pad and accommodate either right or left-handed users.

2.6.3 Wall Mounted Components

Wall tracks shall be utilized when components are shown attached directly to wall surfaces. Tracks shall be of heavy duty extruded metal. Finish and color of tracks shall match the panel trim. Vertically aligned tracks shall be slotted on 1 inch centers in heights required. Slot spacing shall match slot spacing for wall panels.

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2.7 MISCELLANEOUS HARDWARE

Brackets, supports, hangers, clips, panel supported legs, connectors, adjustable feet, cover plates, stabilizers, and other miscellaneous hardware shall be provided.

2.8 LOCKS AND KEYING

Drawers, overhead cabinets, and lateral files shall have keyed locks. Field changeable lock cylinders shall be provided with a minimum of 100

different key options. Each workstation shall be individually keyed and locks within a workstation shall be keyed alike. Drawers within a pedestal shall be lockable either by a central lock that controls all pedestals under one work surface or an individual keyed lock in each pedestal. Two keys shall be provided for each lock or 2 keys per workstation when keyed alike, and 3 master keys shall be provided per area as shown on the contract drawings. Keys and lock cylinders shall be numbered for ease of replacement. Locks shall be clearly labeled with a key number.

2.9 ELECTRICAL

Both powered and nonpowered panels shall have base raceways capable of distributing power circuits, communication cables and data lines. Nonpowered bases shall be capable of easy field conversion to powered base without requiring the panel to be dismantled or removed from the workstation. The system shall use copper wiring harnesses and shall meet requirements of UL 1286 and NFPA 70, Article 605. Conductors shall consist of 20 amp , #12 AWG wires or the equivalent in the bus configuration. The label or listing of Underwriter's Laboratories, Inc. will be accepted as evidence that the material or equipment conforms to the applicable standards of that agency. In lieu of this label or listing, a statement from a nationally recognized, adequately equipped testing agency shall be submitted indicating that the items have been tested in accordance with required procedures of UL and that the materials and equipment comply with contract requirements. Electrical work not addressed in this section shall conform to the requirements of Section 16415ELECTRICAL WORK, INTERIOR.

2.9.1 Panel Raceways

Panels shall have hinged or removable covers that permit easy access to the raceway when required but are securely mounted and cannot be accidentally dislodged under normal conditions. The raceway shall not extend past either panel face by more than 1/2 inch. Metal or plastic covers which attach securely to the raceway shall be provided as required and shall match the finish and color of the panel trim. Raceways in full size over 24 inches powered panels on panel frames shall have a minimum of 2 knockouts (doors) per side for electrical connections or outlets as indicated elsewhere. Other raceways must be flush with panel face.

2.9.2 Power Distribution

Power distribution shall be provided as indicated on the drawings. The panels shall have an internal power and communications raceway and the capability of disconnecting and connecting external circuits to the electrified raceway in the panel. The communications receiving raceway shall have capacity for at least twenty 4-pair category 5 cables. Power and communications wiring may share a common wireway if a metal divider is included to ensure electrical isolation. Doors or access openings shall be included for entry of communications cable. The electrified power raceway shall be of the 8-wire configuration indicated. Conductors of the 8-wire system shall be allocated as follows: the three-phase system shall have one equipment ground, one isolated ground, one oversized (133% minimum) neutral per phase, and one each dedicated phase.

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2.9.2.1 Receptacles

Power receptacles shall be provided in the powered panels. Devices shall be placed at the locations indicated on the plans and shall be connected to the designated circuits. Unless otherwise indicated, receptacles shall be 15 amp commercial grade conforming to NEMA WD 1 and NEMA WD 6. If receptacles are not interchangeable or will not permit field adjustment of phase and circuit selection, 10 percent spare devices of each type shown on these plans shall be furnished. All receptacles shall be of the duplex configuration; unless otherwise indicated, special use receptacles shall be of the simplex configuration with the blade/pin arrangement identified on the plans. The color of receptacle bodies shall be coordinated with the color of the panel trim. Isolated ground receptacles shall have distinct markings be of a different color than other receptacles. Field applied identification shall be permanent; stick-on or non-setting adhesives shall not be used.

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2.9.2.2 Power Cabling Variations

The paragraph Power Distribution has identified specific cabling configurations.

2.9.3 Electrical Connections

2.9.3.1 Internal Connections

Internal panel-to-panel power connections shall utilize straight or flexible plug/receptacle connector assemblies and shall be installed to provide the powered configurations shown on the drawings.

2.9.3.2 Connections to Building Services

External power and communications services shall be supplied to the panels via direct-wired top or base entry modules. Wiring from building services shall be extended to the entry modules or panel bases in metal conduit or tubing or in flexible liquidtight conduit 6 foot maximum. Wiring from building services shall be extended to junction box assemblies in metal conduit or tubing. Wiring from junction boxes shall be flexible liquid-tight conduit 6 foot maximum or in metal conduit or tubing. Cord and plug assemblies shall not be used for any portion of external links. Base feed modules shall plug into the end or either side of the raceway at receptacle doors. Top entry junction box assemblies shall extend the power and communications wiring into service entry poles attached to the electrified panels. External wiring shall conform to Section 16415 ELECTRICAL WORK, INTERIOR.

2.9.4 Wire Management

Wire management capability shall be provided at all workstations. Actual wire management capacity shall accommodate all cable types specified, including the applicable manufacturer required bending radius at corners.

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2.9.5 Circuit Layout

The circuit layout for workstations shall be as shown on the drawings. Devices shall be connected to the designated circuits in the neutral and ground configurations indicated. Connections shall be made to the building electrical distribution system as shown on the contract drawings and in accordance with Section 16415 ELECTRICAL WORK, INTERIOR.

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2.9.6 Task Lighting

Task light size and placement shall be provided as indicated on the contract drawings. Such lights shall be a standard component of the manufacturer's workstation products. The ends of the task light length shall not extend beyond the edges of the overhead unit. Task lights shall have structurally sound mounting devices which will prevent accidental displacement, but will allow easy removal and replacement when necessary. Fixtures shall be UL approved for use in the configurations indicated on the drawings.

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2.9.6.1 Luminaire Configuration

Luminaires shall be the fluorescent type and shall have prismatic lenses, baffles, or reflector systems configured to minimize glare by shielding the lamp from the view of a seated user. Task lights for each workstation shall provide a minimum of 60 foot candles of light (horizontally measured), without veiling reflections, on the work surface directly below and a maximum of 20 inches from the fixture. All diffusers, grilles or other coverings shall be easily removable to permit cleaning and relamping.

Fixtures shall be provided with energy efficient ballasts and lamps as indicated. If the type is not identified on the plans, F32T8 lamps in 4 foot units with electronic ballasts shall be used. Each luminaire shall have an easily accessible on-off switch and one rapid-start ballast. A variable intensity control is acceptable if the low setting is equivalent to "off" with zero energy consumption. Multiple switching is also acceptable. Ganged fixtures or shared ballasts shall not be used. Lamps and ballasts shall conform to the requirements of Section 16415 ELECTRICAL WORK, INTERIOR.

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2.9.6.2 Wiring

Each fixture shall have a 6 foot minimum, factory installed, heavy duty electrical cordset with a grounded plug. Direct or hard wire connections are not acceptable. Unless otherwise indicated, cords shall be concealed. Cord concealment shall be built-in within panels or shall utilize field installed, manufacturer approved accessories. Cords may be extended through dedicated channels located at any point within panels or may be placed in vertical slots or in the space between panels if held in place by retainers and concealed by a cover plate. Vertical wire managers shall be prefinished and cut to size and shall extend from the task light level down to the top of the work surface below the task light. Each manager shall be

attached to a panel vertical edge or connector strip without damage to the surfaces.

2.9.7 Communications

Communications wiring shall be extended to, and installed in, the electrified panels as shown on the plans. Communications outlets shall be installed at designated locations. Communications work may be performed in conjunction with the installation of workstations or may be separately executed at the Contractor's option; however, equipment, materials, and installation shall conform to the requirements of Section 16710 PREMISES DISTRIBUTION SYSTEM and all interfaces must be properly coordinated.

PART 3 EXECUTION

3.1 INSTALLATION

The workstations shall be installed by certified installers in accordance with manufacturer's recommended installation instructions. Workstation components shall be installed level, plumb, square, and with proper alignment with adjoining furniture. The components shall be securely interconnected and securely attached to the building where required. Three sets of special tools and equipment necessary for the relocation of panels and other components shall be furnished.

3.2 CLEANING

Upon completion of installation, all products shall be cleaned and polished and the area shall be left in a clean and neat condition. Any defects in material and installation shall be repaired, and damaged products that cannot be satisfactorily repaired shall be replaced.

-- End of Section --